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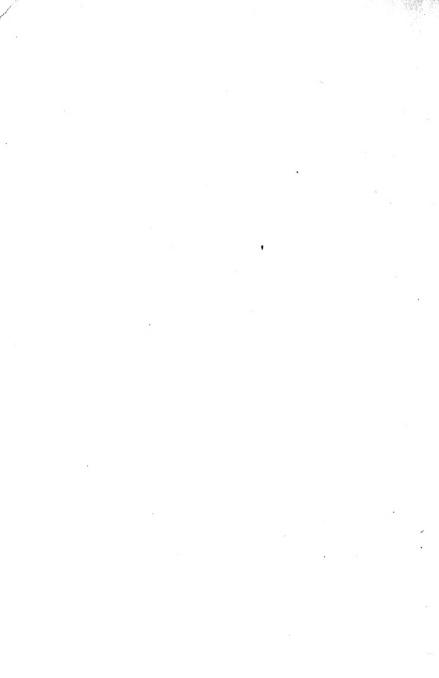
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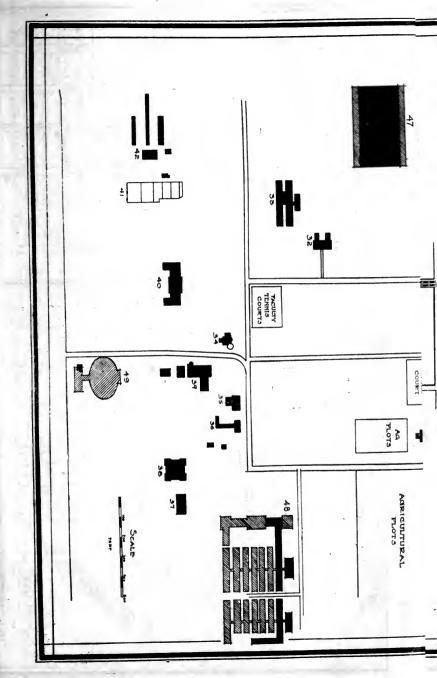
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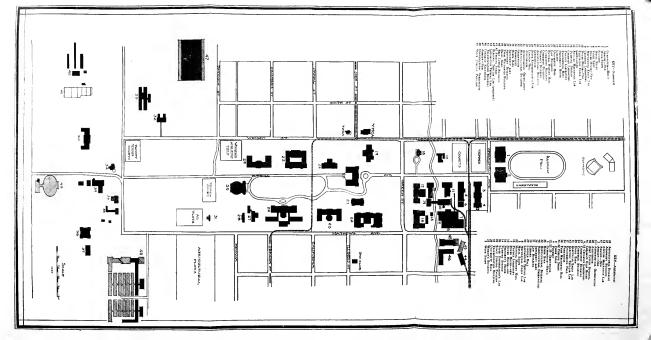
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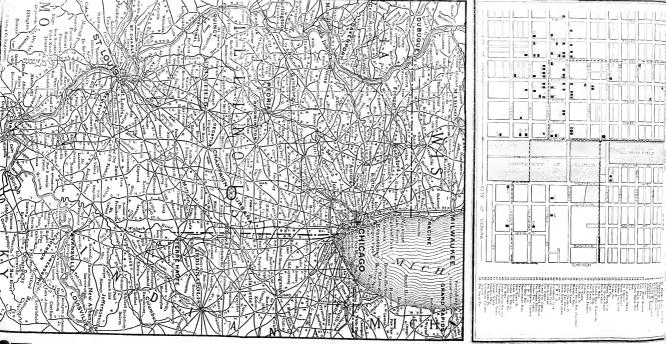


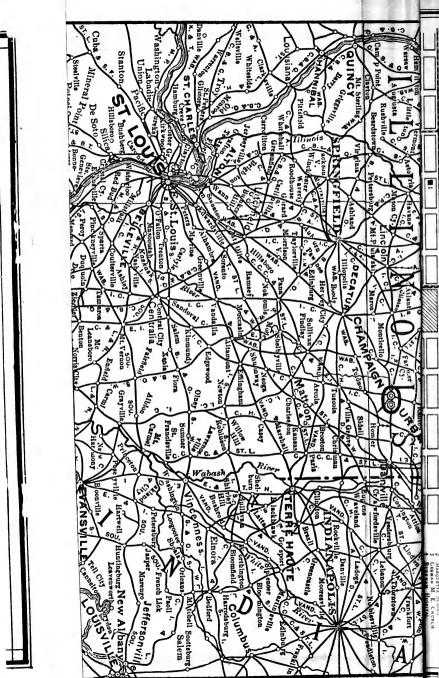
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University of Illinois

ANNUAL REGISTER 1912-1913

General Announcements, 1913-1914 Faculty and Courses, 1912-1913 Students, 1912-1913

URBANA-CHAMPAIGN
PUBLISHED BY THE UNIVERSITY AF

FLANIGAN-PEARSON CO.
PRINTERS AND BINDERS
CHAMPAIGN, ILLINOIS



1912-1913 Oup.2

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THE UNIVERSITY CALENDAR

1912-1913-1914

FIRST SEMESTER, 1912-1913

Sept. 10, Tues.

Sept. 11-14, Wed. to Sat. Sept. 16, 17, Mon., Tues. Sept. 18, Wed., 8 a. m.

4 p. m.

Oct. 7, Mon., 4 p. m. Nov. 4, Mon., 5 p. m.

Nov. 21-23, Thurs. to Sat. Nov. 27, Wed., 12 m. Dec. 2, Mon.

12 m.

4 p. m.

Dec. 10, Tues.

Dec. 13, Fri.
Dec. 17, Tues.
Dec. 21, Sat., 12 m.
Dec. 31, Tues., 5 p. m.

1913

Jan. 6, Mon., 12 m.

Jan. 23, Thurs.

Jan. 30, Thurs.

Jan. 31, Fri.

Quarterly meeting of the Board of Trustees

Entrance examinations Registration days

Instruction begun

Freshman convocation

Senate Meeting

Latest day for announcement of subjects for all undergraduate and graduate theses

High school conference

Thanksgiving recess begun

Illinois Day

Instruction resumed

Senate meeting

Quarterly meeting of the Board of

Trustees

Junior promenade

Christmas concert Holiday recess begun

Latest day for submission of outlines of theses by candidates for profes-

sional degrees in engineering

Instruction resumed

Semester examinations begun

End of first semester

Annual sophomore cotillion

SECOND SEMESTER, 1912-1913

Registration days

Feb. 3, 4, Mon., Tues. Feb. 3, Mon., 4 p. m. Feb. 5, Wed., 8 a. m. Feb. 12, Wed. Feb. 21, Fri. March 1, Sat. March 2, Sun. March 11, Tues.

March 20, Thurs., 12 m. March 25, Tues., 12 m. April 1, Tues., 5 p. m.

April 7, Mon., 4 p. m. May 16, Fri., evening May 15-17, Thurs. to Sat. May 17, Sat.

5 p. m.

May, between 15 and 31

May 29, Thurs. May 30, Fri. June 5, Thurs. June 7, Sat., 12 m.

June 8, Sun. June 9, Mon.

June 10, Tues.

June 11, Wed.

Senate meeting Instruction begun Lincoln Day Annual military ball Annual band concert University Day Annual meeting of the Board of Trustees Easter recess begun Instruction resumed Latest day for filing of completed theses by candidates for professional degrees in engineering Senate meeting Interscholastic oratorical contest Public school art exhibit Interscholastic athletic meet Latest day for receipt by the Dean of the Graduate School of certified copies of doctors' theses Hazelton prize drill Annual inspection Company competitive drill Semester examinations begun Military Day Semester examinations ended Latest day for acceptance of undergraduate theses Latest day for receipt by the Dean of the Graduate School of certified copies of masters' theses Baccalaureate address Class Day Senior ball Alumni Day Quarterly meeting of the Board of Trustees

Forty-second Annual Commencement

SUMMER SESSION, 1913

June 16, Mon.
June 17, Tues.

June 28, July 5, 12, 19, 26 Aug. 7, 8, Thurs., Fri. Registration day Instruction begun Entrance examinations Final examinations

FIRST SEMESTER, 1913-1914

Sept. 9, Tues.

Sept. 15-18, Mon. to Thurs. Sept. 22, 23, Mon., Tues.

Sept. 24, Wed., 8 a. m.

4 p. m.

Oct. 6, Mon., 4 p. m.

Nov. 3, Mon., 5 p. m.

Nov. 20-22, Thurs. to Sat. Nov. 26, Wed., 12 m.

Dec. 1, Mon., 12 m.

4 p. m.

Dec. 2, Tues. Dec. 9, Tues.

Dec. 12, Fri. Dec. 16, Tues

Dec. 19, Fri., 5 p.m.

Dec. 31, Wed., 5 p. m.

Quarterly meeting of the Board of

Trustees

Entrance examinations Registration days

Instruction begun

Freshman convocation

Senate meeting

Latest day for announcement of subjects for all undergraduate and

graduate theses

High School conference

Thanksgiving recess begun

Instruction resumed

Senate meeting

Illinois Day

Quarterly meeting of the Board of

Trustees

Junior promenade

Christmas concert Holiday recess begun

Latest day for submission of outlines

of theses by candidates for professional degrees in engineering

1914

Jan. 5, Mon., 12 m.

Jan. 29, Thurs. Feb. 2, Mon., 4 p. m.

Feb. 5, Thurs.

Feb. 6, Fri.

Instruction resumed

Semester examinations begun

Senate meeting

End of first semester

Annual sophomore cotillion

SECOND SEMESTER, 1913-1914

Feb. 9, 10, Mon., Tues. Feb. 11, Wed., 8 a. m. Feb. 12, Thurs. Feb. 20, Fri. March 2, Mon. March 7, Sat. March 10, Tues.

April 6, Mon., 4 p. m. 5 p. m.

April 9, Thurs., 12 m. April 14, Tues., 12 m. May 15, Fri., evening May 14-16, Thurs. to Sat. May 16, Sat.

5 p. m.

May, between 15 and 31

May 30, Sat. June 4, Thurs. June 6, Sat., 12 m.

June 9, Tues.

June 11, Thurs. June 14, Sun. June 15, Mon.

June 16, Tues. June 17, Wed.

Registration days Instruction begun Lincoln Day Annual military ball University Day Annual band concert

Annual meeting of the Board of Trustees

Senate meeting

Latest day for filing of completed
theses by candidates for professional degrees in engineering

Easter recess begun
Instruction resumed
Interscholastic oratorical contest
Public school art exhibit
Interscholastic athletic meet

Latest day for receipt by the Dean of the Graduate School of certified copies of doctors' theses

Hazelton prize drill Annual inspection

Company competitive drill

Military Day

Semester examinations begun

Latest day for acceptance of undergraduate theses

Latest day for receipt by the Dean of the Graduate School of certified copies of masters' theses

Quarterly meeting of the Board of

Semester examinations ended

Baccalaureate address Class Day Senior ball

Alumni Day

Forty-third Annual Commencement

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The President of the State Board of AgricultureEx Officio GEORGE A. ANTHONY
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S. W. Strong	Urbana
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^{*}On leave, Feb. 1, 1912, to Feb. 1, 1913.

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^{*}Second Semester, 1912-13.

EARLE HORACE WARNER, A.B., Assistant in Physics JOHN JONATHAN YOKE, Assistant in Animal Husbandry JAMES VAIL STEVENSON, A.B., Assistant in Agricultural Extension CHARLES LESLIE STEWART, A.M., Research Assistant in Economics BERT STOVER DAVISSON, A.B., Assistant in Chemistry ERNEST CARROLL FAUST, A.B., Research Assistant in Zoölogy JOSEPH CULPEPPER PENDLETON, Assistant in Foundry EMERSON GRANT SUTCLIFFE, A.B., Assistant in English Bronson Barlow, B.S., Assistant in Bacteriology ERNST KESSLER. Assistant in Glass Blowing RUTH SARAH ATWELL, B.S., Assistant in Botany RAYMOND ADAMS DUTCHER, A.M., M.S., Assistant in Chemistry HENRY HARRISON BARTELLS. Research Assistant in Ceramics THOMAS GREGORY GOODWIN, A.B., Assistant in English WILLIAM FIRTH WELLS, B.S., Assistant in Municipal Dairying JOHN RICHARD WELLS, B.S., Assistant in Animal Husbandry PAUL JAY BATKIN, A.B., Assistant in English LEW R SARETT, A.B., Assistant in Public Speaking GRACE ESTHER STEVENS, A.B., Assistant in Household Science Bronislav Roman Honovski, Ph.D., Assistant in Chemistry CATHERINE OAKS. A.B., B.L.S., Reviser in the Library School

GRADUATE ASSISTANTS

CHESTER HARMON ALLEN, A.B., Graduate Assistant in Chemistry JUNE MAUDE ASHLEY, A.B., Graduate Assistant in Zoölogy ROBERT EARL BAKER, A.B., Graduate Assistant in Chemistry PANZY LOUISE BARGER, A.M., Graduate Assistant in Zoölogy ALICE DOROTHEA BROOKS, A.B., Graduate Assistant in Zoölogy LAWRENCE VREELAND BURTON, B.S., Graduate Assistant in Chemistry KARL ADOLF CLARK, A.M., Graduate Assistant in Chemistry EDGAR WALLACE ENGLE, B.S., Graduate Assistant in Chemistry CLINTON EDGAR GILLETTE. M.S., Graduate Assistant in Chemistry ROYAL GLENN HALL, A.B., Graduate Assistant in Zoölogy RAYMOND WASHINGTON HESS, A.B., Graduate Assistant in Chemistry ERNEST MICHAEL RUDOLPH LAMKEY, Graduate Assistant in Botany THOMAS ERNEST LAYING, A.M., Graduate Assistant in Chemistry RALPH HARLAN LINKINS, A.B., Graduate Assistant in Zoölogy CLINTON ALBERT LUDWIG, B.S., Graduate Assistant in Botany ROLAND NORTON MILLER, A.B., Graduate Assistant in Chemistry ALBERT WAFFLE OWENS, B.S., Graduate Assistant in Chemistry SAMUEL HAWTHORNE SCHERFEE, A.B., Graduate Assistant in Botany HENRY FRANK SCHNEIDER, A.B., Graduate Assistant in Chemistry Horace Wesley Stunkard, B.S., Graduate Assistant in Zoölogy *Margaret Wallace Taggart, A.M., Graduate Assistant in Zoölogy Serrit John Van Zoeren, A.B., Graduate Assistant in Chemistry Ernest Atkins Wildman, B.S., Graduate Assistant in Chemistry Paul Stanley Woodward, B.S., Graduate Assistant in Chemistry Harper Filer Zoller, B.S., Lecture Assistant in Chemistry

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JUANITA ELIZABETH DARRAH, Student Assistant in Chemistry
RAYMOND STARR DUNHAM, Student Assistant in Chemistry
EDWARD ANTON GLENZ, Student Assistant in Chemistry
JEROME FRANCIS KOHOUT, Student Assistant in Chemistry
EUGENE HENDRICKS LESLIE, Student Assistant in Chemistry
RUBY FRANCES MOORE, Student Assistant in Physical Training for
Women

ANTON PRASIL, Student Assistant in Chemistry
ERNEST ALBERT RICH, Student Assistant in Commercial Law
CARL WILLIAM JOHN SIEVERT, Student Assistant in Chemistry
GEORGE ERIC SIMPSON, Student Assistant in Chemistry
SCOTT CHAMPLIN TAYLOR, B.S., Student Assistant in Chemistry
HOWARD DEWITT VALENTINE, Student Assistant in Chemistry

ASSISTANTS IN MILITARY SCIENCE

Eugene Hendricks Leslie, Assistant in Military Science Howard Christopher Hohman, Assistant in Military Science Harwell Cloud Thompson, Assistant in Military Science Charles Rush Horrell, Assistant in Military Science Lewis Brown Ermeling, Assistant in Military Science

^{*}Resigned.

THE UNIVERSITY LIBRARY

STAFF

PHINEAS LAWRENCE WINDSOR, Ph.B., Librarian and Director of the Library School

Francis Keese Wynkoop Drury, A.M., B.L.S., Assistant Librarian Sabra Elizabeth Stevens, A.B., General Assistant Myrtle Renz, B.L.S., General Assistant Eleanor G Karsten, Ph.B., Secretary

Order Department-

Jacob Hodnefield, A.M., Exchange Assistant Aurella Knapp, A.B., B.L.S., Order Assistant (Periodicals) Nellie Mabel Robertson, A.B., Order Assistant (Gifts) Clara Agnes Ricketts, A.B., Order Assistant (Purchases)

Loan Department-

EMMA REED JUTTON, B.L.S., Loan Librarian
FRANCES MARGARET FEIND, A.B., B.L.S., Loan Assistant
SARAH ELIZABETH BRYAN, A.M., B.L.S., Loan Assistant
INA MAY BROWN, Loan Assistant
VIOLA FRASER, A.B., Loan Assistant
BERTRAM SMITH, Ph.B., Shelf Assistant
LEROY PRICKETT, Shelf Assistant

Binding Department-

Josie Batcheller Houchens, A.M., B.L.S., Binding Librarian

Catalog Department-

PHILIP SANFORD GOULDING, A.B., Catalog Librarian Adah Patton, B.L.S., Classifier
Antoinette Helen Goetz, A.B., Catalog Assistant
Edith Emigh, Catalog Assistant
Mary Torrance, A.B., Catalog Assistant
Lila Alexander, Catalog Assistant
Fannie Dunlap, Ph.B., Catalog Assistant
*Flora Case, A.B., Catalog Assistant

^{*}Resigned, Dec. 31, 1912.

Departmental Libraries-

MARGARET HUTCHINS, A.B., B.L.S., Assistant in the Classics JOHN BOYNTON KAISER, A.B., B.L.S., Assistant in Economics OLA M WYETH, A.B., B.L.S., Assistant in German and Romance Languages

MARGARET LUCY KINGSBURY, A.B., Assistant in History and Political Science

Jennie Adah Craig, A.B., B.L.S., Assistant in English
Florence Rising Curtis, A.B., B.L.S., Assistant in Library School
Margaret Herdman, A.B., Assistant in Philosophy, Psychology,
and Education

CHARLES EDWIN JANVRIN, Ph.B., B.L.S., Assistant in Natural History

WINIFRED FEHRENKAMP, B.L.S., Assistant in Architecture

Reference Department-

Frances Simpson, M.L., B.L.S., Reference Librarian Alice Sarah Johnson, B.L.S., Reference Assistant Emma Felsenthal, Ph.B., B.L.S., Reference Assistant

THE SCHOOL OF PHARMACY

(MICHIGAN BOULEVARD AND TWELFTH STREET, CHICAGO)

FACULTY

EDMUND JANES JAMES, Ph.D., LL.D., President
WILLIAM BAKER DAY, Ph.G., Acting Dean, Secretary, and Professor
of Histological Botany

FREDERICK MARION GOODMAN, Ph.G., Professor of Materia Medica and Botany

ALBERT HENRY CLARK, Ph.G., Assistant Professor of Chemistry
CLYDE MASON SNOW, Ph.G., Assistant Professor of Pharmacy
BERNARD FANTUS, M.D., Lecturer on Physiology
EDMUND NORRIS GATHERCOAL, Ph.G., Instructor in Pharmacognosy
HENRY WILLIAM COLSON, Ph.C., Assistant in Chemistry
BEN LEE EICHER, Ph.C., Assistant in Pharmacy

STANDING COMMITTEES OF THE FACULTY

COMMITTEES OF THE SENATE

Committee on Library—Professor Daniels, chairman; Professor Blair, Professor Carman, Professor Goebel, Professor Sherman, Mr. Windsor, Assistant Professor Washburn.

Committee on Educational Policy—Professor Forbes, chairman; Professor Mumford, Professor Noyes, Professor Berg, Professor Ford, Dean Kinley (ex officio).

Committee on Athletics—Professor Parr, chairman; Professor Goodenough, Dean Clark, Professor White, Major Morse.

COMMITTEES OF THE COUNCIL OF ADMINISTRATION

Committee on Attendance for Men—Professor Pease, chairman; Assistant Dean Warnock, Mr. Noerenberg, Dr. Börger, Assistant Professor Coffey.

Committee on Attendance for Women—Assistant Professor Goldthwaite, chairman; Acting Dean Fawcett (secretary), Assistant Professor Simpson.

Committee on Discipline for Men—Dean Clark, chairman (ex officio); Professor Barton, Professor Richards, Assistant Professor Rankin, Professor Decker, Dr. Lytle.

Committee on Discipline for Women—Acting Dean Fawcett, chairman (ex officio); Miss Blaisdell, Miss Jones.

Committee on Student Organizations and Activities—Assistant Professor Watson, chairman; Dean Clark, Acting Dean Fawcett, Professor Lloyd, Assistant Professor Schwartz.

Committee on Student Publications—Assistant Professor Scott, chairman; Professor L. H. Smith, Assistant Professor Dufour.

Auditing Committee for Student Organizations and Publications—Assistant Dean Warnock, chairman; Assistant Professor Paul, Mr. Noerenberg.

Committee on Students' Progress—Dean Clark, chairman; Acting Dean Fawcett, Assistant Dean Meyer, Associate Professor Rietz, Assistant Dean Miller, Assistant Professor Rankin, Professor Vernier.

Loan Fund Committee-Dean Clark, chairman; Assistant Dean Meyer, Assistant Dean Miller.

Committee on the Hospital Association—Dean Clark, chairman; Acting Dean Fawcett, Assistant Dean Miller.

Committee on Transfer of Credits—Professor Pettit, chairman; Assistant Professor Hollister, Assistant Professor Leutwiler, Dr. Seymour, Dr. Crathorne, Mr. McConn, secretary (ex officio).

Committee on Accredited Schools—Professor Bagley, chairman; Assistant Professor Hollister, Associate Professor Bayley, Assistant Professor Paul, Assistant Dean Miller, Mr. McConn.

Committee on Appointment of Graduates—Professor Bagley, chairman; Assistant Professor Hollister, Associate Professor Larson, Associate Professor Frank Smith.

Committee on Catalog-Professor Ward, chairman; Professor Carman, Professor Alden.

PART I GENERAL INFORMATION



LOCATION

The University of Illinois is situated in Champaign County, about fifty miles northeast of the geographical center of the State. It is 128 miles south of Chicago, 118 miles west of Indianapolis, 164 miles northeast of St. Louis.

The campus of the University lies just within the corporate limits of the city of Urbana and is bounded on the west by the city of Champaign. These two municipalities, locally known as the "Twin Cities", form in fact one community of about twenty-four thousand inhabitants. The city halls of the two towns are about two miles apart, the campus half way between. The railway, express, telegraph, and telephone services of both cities are, therefore, equally available for the University. Mail for the institution itself should be directed to Urbana to insure prompt delivery. The Urbana post-office maintains a sub-station at the University, located in the Library Building.

Urbana-Champaign

The cities of Urbana and Champaign are in the heart of the "Corn Belt" and form the business and social center of a rich farming community.

Both cities are well paved, well drained, and provided with good water supply. In matters pertaining to health, conditions are excellent. There is a hospital within three blocks of the campus, in which students may be cared for at moderate expense.

The University has no dormitories, but the number of boarding houses is large, and there are forty-two residence halls erected by fraternities, sororities, and local clubs. The material needs of the student body are, therefore, provided for.

The moral and religious conditions of the University community are favorable to the welfare of the students. There are thirty churches, representing eleven denominations, and a number of students' religious associations, leagues, and guilds, including strong Young Men's and Young Women's Christian Associations.

Under the State local option law, the liquor traffic has been barred from both cities.

RAILWAY CONNECTIONS

The University is connected with neighboring cities in Illinois, including Danville, Bloomington, Decatur, Springfield, and Peoria, and also with St. Louis, by the electric interurban lines of the Illinois Traction System. It will shortly be connected by other interurban lines with Kankakee and Chicago.

It may be reached from Chicago and the north and from points in the south by the Illinois Central Railroad (time from Chicago by express trains, three hours and ten minutes), being on the direct line from Chicago to Cairo and New Orleans. It is joined to the east and the west by the Peoria & Eastern Division of the "Big Four" Route (Cleveland, Cincinnati, Chicago, and St. Louis Railway), as well as by the division of the Wabash Railway which connects Kansas City and St. Louis with Detroit and Buffalo. It is also reached from the west by the Havana branch of the Illinois Central Railroad and from Decatur by another branch of the same system.

The time from New York by way of the Wabash and "Big Four" routes is twenty-six hours, by way of Chicago and the Illinois Central, twenty-four hours. Washington and Philadelphia are about equally distant in time. Pittsburg, Buffalo, Kansas City, and Omaha may be reached in fifteen, fourteen, thirteen, and seventeen hours respectively.

The station of the Illinois Central Railroad is in Champaign. The Wabash and "Big Four" have stations in both Champaign and Urbana. These several stations are each a little more than a mile distant from the University campus. There are several hotels in Champaign and Urbana within easy reach of the University, the Beardsley in Champaign and the Columbian in Urbana being the largest.

HISTORY

1862. The Morrill Land Grant

By this act the national government donated to each state in the Union public land scrip, in quantity equal to 30,000 acres for each senator and representative in Congress, "for the endowment, support, and maintenance of at least one college, whose leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanical arts, * * * in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

On account of this grant the State pays the University, semi-annually, interest at the rate of five per cent on about \$610,000 and deferred payments on land contracts amounting approximately to \$35,000.

Location chosen

To secure the location of the University several counties entered into competition by proposing to donate to its use specified sums of money or their equivalent. Champaign County offered a large brick building in the suburbs of Urbana, erected for a seminary and nearly completed, about 1,000 acres of land, and \$100,000 in county bonds. To this the Illinois Central Railroad added \$50,000 in freight.

1867. Incorporation

The institution was incorporated February 28, 1867, under the name of the Illinois Industrial University. It was placed under the control of a Board of Trustees, consisting of the Governor, the Superintendent of Public Instruction, and the President of the State Board of Agriculture, ex officio members, and twenty-eight citizens appointed by the Governor. The chief executive officer was called the Regent, and was made an ex officio member of the Board and the presiding officer of both the Board of Trustees and the Faculty. (See also 1873 and 1887 below.)

1868. The University opened

The University opened on March 2, 1868. The number of students enrolled was about fifty; the faculty consisted of the Regent and three professors. During the first term another instructor was added, and the number of students increased to 77—all young men.

During the first term instruction was given in algebra, geometry, physics, history, rhetoric, and Latin. Work on the farm and gardens or about the buildings was at first compulsory for all students. In March of the next year, however, compulsory labor was discontinued, save when it was to serve as a part of instruction.

1868-9. The first laboratories

During the autumn of 1868 a chemical laboratory was fitted up; and laboratory work in botany was begun the following year.

1870. Pioneer shop instruction

In January, 1870, a mechanical shop was fitted up with tools and machinery, and here was begun the first shop instruction given in any American university. In the summer of 1871 the Wood Shops and Testing Laboratory (burned on June 9, 1900) were erected and equipped for students' shop work in both wood and iron.

1870. Women admitted

On March 9, 1870, the Trustees voted to admit women as students. In the year 1870-71 twenty-four availed themselves of the privilege. Since that time they have constituted from one-sixth to one-fifth of the total number of students.

1873. First reorganization of the Board of Trustees

At this time the number of members was reduced from thirty-one (see 1867 above) to eleven—the Governor and the President of the State Board of Agriculture, ex officio, and nine others, who were still appointed by the Governor. Beginning at this time also, the President of the Board has been chosen by the members from among their own number for a term of one year. (See also 1887 below.)

1877. Authority to confer degrees received

According to the original State law, the usual diplomas and degrees could not be granted by the University; certificates showing the studies pursued and the attainments in each were given instead. The certificates proved unsatisfactory to the holders, and in 1877 the legislature gave the University authority to confer degrees and issue diplomas.

1885. Change of name

In this year the General Assembly changed the name of the institution from the *Illinois Industrial University* to the *University* of *Illinois*.

1885. The State Laboratory of Natural History transferred to the University

See page 429.

1887. Second reorganization of the Board of Trustees

In 1887 a law was passed making membership in the Board elective, at a general State election, and restoring the Superintendent of Public Instruction as an *ex officio* member. There are now, therefore, three *ex officio* and nine elective members. (For the previous organization of the Board see 1867 and 1873 above.)

1887. The Agricultural Experiment Station established at the University

See page 423.

1890. Additional Federal endowment

In 1890 the Congress of the United States made further appropriations for the endowment of the institutions founded under the act of 1862. Under this enactment each such college or university received the first year \$15,000, the second year, \$16,000, and in each succeeding year a sum larger by \$1,000 than the amount of the preceding year, until the amount reached \$25,000; this sum was to be paid yearly thereafter.

1892. The Graduate School

Beginning with this year, graduate work was undertaken under the name of the Graduate School, but without the organization of a separate faculty.

1894. The Summer Session

The first Summer Session of the University was authorized by a vote of the Trustees on March 13, 1894, and was opened in June of that year.

1896. The School of Pharmacy

On May 1, 1896, the Chicago College of Pharmacy, founded in 1859, became the School of Pharmacy of the University of Illinois. Its building is located at Michigan Boulevard and Twelfth Street, Chicago.

1897. The College of Medicine

Negotiations looking to the affiliation of the College of Physicians and Surgeons of Chicago with the University, which had been going on for several years, were concluded by the Board of Trustees March 9, 1897. Accordingly, the College of Physicians and Surgeons became, on April 21, 1897, the College of Medicine of the University of Illinois. (The College of Medicine was discontinued on June 30, 1912.)

1897. The School of Music

By vote of the Trustees on June 9, 1897, the department of music, which had been reorganized and enlarged in 1895, was erected into the School of Music, with a separate faculty and organization.

1897. The State Water Survey authorized See page 431.

1897. The Library School

In 1897 the School of Library Economy, which had been established in 1893 at the Armour Institute of Technology in Chicago, was transferred to the University; the Director of that school was appointed Librarian of the University Library; and the Library School was opened.

1897. The College of Law

Pursuant to an action of the Board of Trustees, taken December 8, 1896, the School of Law was organized, and was opened September 13, 1897. The course of study covered two years, in conformity with the then existing requirements for admission to the bar of Illinois. In the following November, however, the Supreme-Court of the State announced rules relating to examinations for admission to the bar which made three years of study necessary, and the course of study in the Law School was immediately rearranged on that basis. On February 9, 1900, the name of the School of Law was changed, by vote of the Board of Trustees, to College of Law.

1899. The State Entomologist's Office permanently established at the University

See page 430.

1900. Courses in Business Administration

In 1900 the General Assembly made an appropriation for the establishment of courses of training for business life, and, in accord-

ance with that action, the Trustees approved the organization of the Courses in Business Administration.

1901. The College of Dentistry

In accordance with an action taken by the Board of Trustees on March 12, 1901, a School of Dentistry was organized as a department of the College of Medicine. The School was opened October 3, 1901. The name was changed to College of Dentistry on April 27, 1905. (The College of Dentistry was discontinued on June 30, 1912).

1903. The Board of Examiners in Accountancy created See page 434.

1903. The Engineering Experiment Station established See page 427.

1905. The School of Education

By a vote of April 27, 1905, the Board of Trustees established the School of Education, to provide for the professional training of teachers.

1905. The State Geological Survey established See page 432.

1906-7. The School of Railway Engineering and Administration

On January 30, 1906, the Board of Trustees created in the College of Engineering a department of railway engineering; on January 22, 1907, supplementing that action, it established the School of Railway Engineering and Administration.

1906-7. The Graduate School organized as a separate faculty

The General Assembly appropriated \$50,000 for the Graduate School, and the Executive Faculty of that school was organized.

1909. A Mine Rescue Station established at the University See page 435.

1911. The Mill Tax

The General Assembly passed a law providing that in the year 1912, and annually thereafter, the proceeds of a tax of one mill for each dollar of the assessed valuation of the taxable property of the State shall be set apart as a fund for the maintenance of the University.

1912. The Colleges of Medicine and Dentistry discontinued

The Colleges of Medicine and Dentistry were discontinued on
June 30, 1912.

EQUIPMENT

BUILDINGS AND GROUNDS

The land occupied by the University and its several departments embraces 225 acres, besides a farm of 480 acres. There are at the present time some forty-five buildings on the campus.

LITERATURE AND ARTS GROUP

University Hall (erected 1873) is the "old main building" of the University. It occupies three sides of a quadrangle, and is five stories in height. It is devoted to class rooms and offices.

Lincoln Hall (erected 1911) has a frontage of 230 feet. The exterior is brick, stone, and terra cotta. This building provides for the advanced work of the departments of the classics, English, Romance languages, Germanic languages, history, economics, political science, sociology, and philosophy. The first three floors provide, in addition to the ordinary class and consultation rooms, seminar libraries and conference rooms. On the fourth floor are research rooms and two museums, the Museum of Classical Art and Archæology, and the Museum of European Culture.

The Commerce Building (erected 1912) is a fire-proof building three stories high, 153 feet on the front and 60 feet deep, with a one-story annex containing a lecture room 48 feet square. The building has a total floor area of about 29,000 square feet and is to house the work in business administration with its various class rooms, offices, and laboratories. The exterior first story finish is buff Bedford stone; the second and third stories are of brick with carved stone trimmings and cornice. The roof is of tile, and the interior trim is of dark oak throughout.

GENERAL SCIENCE GROUP

Natural History Hall (old part erected 1892; addition 1909) is the largest building on the campus, covering a ground area 135 feet by 275 feet. It is occupied by the departments of botany, entomology, zoölogy, physiology, geology, and mathematics, together with the offices and equipment of the State Geological Survey, and the State Natural History Survey, and the office of the State Entomologist. A fireproof museum 51 feet by 63 feet in size, equipped

with fireproof and dustproof cases, occupies the center of the building.

The Laboratory of Physics (erected 1909) is a three-story fire-proof brick building trimmed with Bedford limestone. The length is 178 feet and the depth of the wings 125 feet. The large lecture room has a seating capacity of two hundred sixty-two. A one-story annex, 78 by 28 feet, contains the ventilating and heating fans and the machine shop of the department. The total available floor area, exclusive of the basement, is about 60,000 square feet. The large laboratories and the recitation rooms are mostly in the west wing. The east wing is of heavy construction and contains about 30 smaller laboratories for advanced experimental work. The blue print department of the University occupies rooms on the top floor of the building.

The Chemical Laboratory (erected 1901-2) is a three-story building, the ground plan of which is shaped like the letter E. The extreme dimensions are 230 feet along the front and 116 feet along the wings. The middle rear wing contains the lecture amphitheater, which seats 350. The end wings contain the general laboratories. The central part of the building is occupied by offices, museum, class and seminar rooms, supply rooms, and a number of special rooms for research work. There is a basement, which contains the ventilating plant and rooms for assaying and metallurgy. In this building are located also the general office and laboratories of the State Water Survey.

The Astronomical Observatory (erected 1896) is a brick building with extreme dimensions of 75 by 55 feet. It has three wings and is surmounted by a dome 25 feet in diameter.

The Ceramics Laboratory (erected 1910) is a two-story brick building in which are provided a general laboratory, plaster room, pottery room, rough grinding room, machine room, drawing room, library, recitation rooms, chemical laboratory, and office. (See also the Mining and Ceramics Laboratory under "Engineering Group" below.)

The Entomology Building is a two-story building 48 by 20 feet, with basement storerooms, and with two insectary wings of greenhouse construction, each 25 by 20 feet. In the main building is an office for the Entomologist, a stenographer's room, an insectary head room, the office of horticultural inspection, and a large fire-proof vault. The glass-covered wings are equipped for experimental entomology and life-history studies.

ENGINEERING GROUP

Engineering Hall (erected 1894) is a four-story building, with a frontage of 200 feet, a depth of 76 feet on the wings and 138 feet on the center, and a floor area of 47,000 square feet. The first and second floors are occupied by the offices, the recitation rooms, and the instrument and drafting rooms of the departments of civil engineering and municipal and sanitary engineering. The engineering lecture room, on the second floor, has a seating capacity of two hundred twenty-five. The third floor is occupied by the offices of the Dean of the College of Engineering and Director of the Engineering Experiment Station and by the office, recitation, and drafting rooms of the department of mechanical engineering. A portion of the third floor and all of the fourth floor is occupied by the department of architecture.

The Electrical Engineering Laboratory (erected 1898) is a twostory brick building with floor area of 18,000 square feet. The basement contains the departmental shop, the storage battery room, the electric furnace room, and rooms for electrical research. The first floor contains the undergraduate laboratory, the instrument room, the high potential laboratory, and the drafting, lecture, and recitation rooms. The second floor contains the photometric laboratory, the offices, the departmental library, and a room used by the Electrical Engineering Society.

The Mechanical Engineering Laboratory (erected 1905) is a brick building with a frontage of 120 feet, a total depth of 182 feet, and a floor area of 24,000 square feet. The front section is two stories high, and contains offices, lecture and computation rooms, and an instrument room. Back of this are three bays. The middle bay is provided with a concrete testing floor and a 10-ton three-motor traveling crane of 38-foot span. The north bay contains a 5-ton traveling crane and is used for laboratory work in connection with the departments of civil and electrical engineering and theoretical and applied mechanics.

The Laboratory of Applied Mechanics (erected 1901-2) is a brick building having a floor area of 16,000 square feet. The front part contains the materials testing laboratory, and the rear wing contains the hydraulics laboratory.

The Mining and Ceramics Laboratory (erected 1912) is a onestory building with a floor area of 11,200 square feet. It contains a kiln room for the department of ceramics having an area of 4,300 square feet, a mining engineering laboratory of 3,600 feet area, and a chemical laboratory for the department of mining engineering. There are also offices and class rooms for the department of ceramics and a Mine Rescue Station equipped with Yeager helmets and arranged for training men in the methods of mine rescue work.

The Locomotive Testing Laboratory (erected 1912) is a fireproof building with brick walls 117 feet long and 42 feet wide, connected by a spur with the Illinois Traction System tracks. It houses a locomotive testing plant, which consists of supporting wheels on which rest the drivers of the locomotive to be tested, a dynamometer to which the locomotive drawbar is attached, and which measures the tractive force exerted by the locomotive, water brakes for absorbing the power developed by the locomotive, and other auxiliary apparatus. The exhaust gases pass through a "transite" (or asbestos board) duct to a large fan which forces them through a reinforced concrete cinder separator; the separator removes the cinders and discharges them into the air through a brick stack eight feet in height.

The Transportation Building (erected 1912) is a three-story fire-proof building of brick trimmed with stone. The general dimensions of the building are 65x189 feet and the total floor area is 34,225 square feet. The first and second floors of the building are occupied by the departments of railway and mining engineering, and the third floor is occupied by the department of general engineering drawing.

The Metal Shops (erected 1902) occupy a one-story brick building, with a floor area of 12,000 square feet, containing a lecture room, two office rooms, a machine shop, and a forge shop. The machine shop is 48 by 140 feet. Power is supplied by a 20 horse-power electric motor. A three-ton traveling crane of 12-foot span covers the center of the floor for the entire length.

The Wood Shop (erected 1901-2) and the Foundry (added 1904) occupy a brick building which has a floor area of 16,000 square feet. The part of the building devoted to the wood shop contains a bench room, lathe room, machine room, and various smaller rooms for lectures, exhibition purposes, etc. The part devoted to the foundry has a molding floor, 35x80 feet, traversed by a 5-ton traveling crane, and a basement room for the storage of materials.

AGRICULTURAL GROUP

The Agricultural Building (erected 1900) consists of four separate structures, built around a court and connected by corridors. The main building, three stories in height, contains offices, class

rooms, and laboratories for the departments of agronomy, animal husbandry, dairy husbandry, horticulture, and veterinary science; the chemical laboratory of the Experiment Station; administration rooms; and an assembly room (Morrow Hall) with a seating capacity of 500. The other three buildings are two stories high; one is for dairy manufactures, one for farm crops, and one for veterinary science and stock judging. These buildings are of stone and brick, roofed with slate, and contain 113 rooms and a total floor space of about two acres. An adjacent glass structure serves the departments of agronomy and horticulture. There are, in addition to these buildings, three dwellings, three barns, and a greenhouse.

The Agronomy Building (erected 1904-5) is 50 by 100 feet in size, of brick and slate, trimmed with stone. It contains a field laboratory for crop work in which yields of experimental plats are studied, sample seeds stored, and specimens preserved.

The Farm Mechanics Building (erected 1906-7) is a three-story brick structure containing class rooms, offices, lecture rooms, drafting room, library, laboratories, and tool and storage rooms. The third floor, which is reached by an elevator, furnishes storage room for the greater part of \$16,000 worth of farm machinery loaned the College by various manufacturing companies and used for laboratory work. The facilities afforded by this building, with its equipment, make possible the assembling, testing, and adjusting of all the important machines used in farm operations.

The Animal Husbandry Cattle Feeding Plant has a capacity for feeding 150 steers at a time. It consists of open and closed sheds with paved lots adjoining. A storage barn 44 by 72 feet and an experimental silo complete the experimental cattle feeding plant.

The Beef Cattle Building (erected 1904-5) is a one-story structure of brick and slate, trimmed with stone, 217 feet across the front, with a wing at either end 33 by 49 feet; the central portion rises two stories and is used for the storage of feed. Other portions of the building are used as quarters for the breeding herd, and will accommodate about 100 head of cattle.

Other buildings for the accommodation of live stock are the horse barn, the piggery, and the large South Farm barn.

The Experimental Dairy Barns (erected 1912) comprise a round barn 70 feet in diameter with a reinforced concrete silo in the center, a semi-detached rectangular structure 40 by 70 feet with a Grout silo adjacent, and a small dairy house and shop 26 by 32 feet. The barns are of frame construction on brick walls with solid floors

of the mill type of construction, and contain feed rooms, hay lofts, and other accommodations for the experimental dairy herd. The dairy house is of frame construction, two stories in height and contains office, shop, coal room, dairy room, and four sleeping rooms for employes.

The Horticultural Building (erected 1904-5) is a structure of brick and slate trimmed with stone, approximately 50 by 100 feet in size. It is used as a field laboratory for horticultural tests and contains sorting rooms, cold storage, and a laboratory for the mixing of spraying materials and other operations in connection with the horticultural work.

The Floricultural Greenhouses (erected 1908) comprise a plant consisting of four glass houses, each 105 by 28 feet, and a service building 26 by 103 feet. Three of the houses are used for experimental work in floriculture, while the fourth is devoted principally to the growing of material for class work in floriculture and plant propagation.

The Horticultural Greenhouse Group (under construction 1912) includes (1) a vegetable and plant breeding group and (2) a floricultural group.

The vegetable and plant breeding group consists of a glass house for vegetable growing 29x105 feet, two houses for plant breeding, one 29x79 feet and one 30x80 feet, a wire house for plant breeding 30x80, and a two-story and basement service building 82 feet 6 inches by 36 feet, containing laboratories, work rooms, class rooms and offices, and storage pit.

The Floriculture Group consists of glass growing houses 332 by 35 feet, a palm house 80 by 40 feet, and a two-story and basement service building 93 feet 3 inches by 37 feet 3 inches, containing class rooms, work rooms, offices, and laboratories.

The glass houses for both groups represent the best type of modern greenhouse construction; the service buildings are of hollow tile and cement construction.

LAW BUILDING

The Law Building (erected 1878; remodeled 1902 and 1912) is the second oldest building in the University group. It has two stories and a basement. The upper floor contains the Law Library, the students' conference room, the private offices of the members of the law faculty, and the Moot Court Room, a model court room with a seating capacity of four hundred. On the main floor are the recitation rooms, the Dean's offices, and the faculty room.

BUILDINGS FOR GENERAL UNIVERSITY USE

The Library Building (erected 1806-7) is modern Romanesque in style, is built of Minnesota sandstone, and measures 167 by 113 feet, with a tower 132 feet high. The first floor, or basement, contains the rooms of the catalog and order departments, the bound newspapers, and the University Station Postoffice. The second, or main floor, contains the general reference room, the periodical reading rooms, a small conference room, and the delivery room, which opens into the second story of the stack. The third floor contains the study room, lecture rooms, and office of the Library School, faculty study room, and the office of the librarian and assistant librarian. The five-story book stack is a rear wing to the building, separated from it by a fireproof wall. The delivery room is open to the roof and is lighted by a dome of art glass; the lunettes are decorated with frescoes symbolic of the four older colleges of the University-Literature and Arts, Science, Agriculture, and Engineering.

The Auditorium (erected 1907-8) is a brick and stone building for general meeting purposes. It contains an auditorium seating about 2,200 and a memorial vestibule. All general University exercises, including convocations and the commencement gatherings, are held in this building.

The Men's Gymnasium (erected 1901) is a three-story building of stone and pressed brick, 100 by 150 feet. On the first floor there is a swimming pool, 26 feet wide, 75 feet long, and 8 feet deep at the lower end, lined with white enamel bricks. This floor contains, also, the general locker room, which is fitted up with all-metal lockers, and with shower bath, and steam baths; rooms for the University athletic teams; a room for visiting teams; a special dressing room for members of the faculty; and offices for the physical director and the instructors in athletics. The entire second floor is one large room, which is fitted up with all the modern appliances for gymnastic exercises. The third floor contains an elevated running track, 15 laps to the mile, which is properly banked on the turns to secure the greatest speed and comfort in running.

The Armory (erected 1889-90) has a clear floor space of 15,000 square feet in one hall. It is equipped with racks for 1,200 stands of arms. An annex provides for two pieces of field artillery.

The New Armory (under construction 1912) comprises a drill room with a clear area 200x340 feet and a height of 90 feet at the center, the roof being carried by fourteen three-hinged steel arches.

The sides are of hollow tile and the ends of timber construction. Provision is made for the extension of the building to 400 feet in length to allow maneuvering of the cadet regiment by battalions, and for the addition of three-story portions along the sides of the building to contain company rooms, locker rooms, and shooting tubes.

The Woman's Building (erected 1905) is in the New England colonial style of architecture, of reddish brown brick, with white stone trimmings. The central part of the structure is the woman's gymnasium. On the lower floor there are a swimming tank, lockers. dressing rooms, and baths. The upper floor is devoted to the main gymnasium, which is 92 by 50 feet. The north wing of the building is given to the department of household science, and the south wing provides rooms for the social life of the women students. addition to the Womans' Building (erected 1012) is a three-story fireproof building with basement. It is 200 feet long on the front and 83 feet on each connecting wing, having 43,000 square feet of floor area. It has a large colonade with towers on the front and two smaller colonades on the north and south of the inner court. The addition is similar to the old building in finish and supplements the working space of the departments using it. It has two halls for literary societies and a modern flat on the upper floor, and an institutional kitchen and large dining room on the second floor. There are also offices for the Dean of Women and the Director of the Courses in Household Science, laboratories, social rooms, and space for the expansion of gymnasium work.

THE PRESIDENT'S HOUSE

The President's House (erected 1896) is a three-story frame building, in the colonial style. The first story is designed primarily for entertaining; large reception and dining parlors are so arranged as to open together into a central corridor. The second and third stories provide library and living rooms.

SERVICE BUILDINGS

The Central Heat and Power Plant (erected 1902; addition 1910) is 55 by 120 feet. It contains boilers aggregating 1,800 horse-power. A supplemental boiler and power plant, designed ultimately to carry the load of the present station, is equipped with boilers of 1.000 horse-power. These two stations furnish steam for heating and power to all buildings on the campus. A power plant containing a 250-kilowatt Allis-Chalmers direct connected steam engine and dynamo, a 125-kilowatt direct connected Westinghouse engine and

generator, and a 100-kilowatt Curtiss turbo-generator, together with the accessories necessary to a complete power station, supplies current for light and power to all parts of the grounds. The pipe-lines of the heating system and the circuits for distributing electricity are carried from the central plant to the several buildings through brick tunnels. Altogether there are now 4,425 feet of tunnels for such purposes. The new boiler and power plant provides temporary quarters for the electric test car of the department of railway engineering.

The Pumping Station of the University water-works is a brick building, 38 by 73 feet, connected with the central heating station. Four 8-inch wells, 145 feet deep, and one 12-inch well, 148 feet deep, supply the University with water. A masonry reservoir provides for a fire-reserve supply. The pumps, tanks, and connections are arranged to give opportunities for experimental work, and also to vary the working conditions in the adjacent hydraulics laboratory. In this building is kept the equipment of the University fire department, including an electric automatic hose and chemical wagon.

LABORATORIES

Twenty-six departments of the University are equipped with laboratories. The following list shows the buildings in which these are located:

GENERAL SCIENCE LABORATORIES

Botany—Natural History Hall Ceramics—Ceramics Laboratory Chemistry—Chemical Laboratory Entomology—Natural History Hall Geology—Natural History Hall Physics—Laboratory of Physics Physiology—Natural History Hall Psychology—University Hall Zoölogy—Natural History Hall

ENGINEERING LABORATORIES

Cement—Mechanical Engineering Laboratory
Electrical engineering—Electrical Engineering Laboratory
Founding—Wood Shop
Forging—Metal Shops
Hydraulics—Laboratory of Applied Mechanics
Locomotive—Locomotive Laboratory

Machine Construction—Metal Shops
Materials testing—Laboratory of Applied Mechanics
Mechanical engineering—Mechanical Engineering Laboratory
Mining—Mining Engineering Laboratory
Roads—Mechanical Engineering Laboratory
Wood Working—Wood Shop

SPECIAL RESEARCH LABORATORIES

Agricultural Experiment Station-

Bacteriological laboratory

Chemical laboratory

Physical laboratory
Geological department—

Laboratory of economic geology State Entomologist's Office

State Laboratory of Natural History— State Water Survey—

Laboratory for sanitary water analysis

Agricultural Building

Natural History Hall

Natural History Hall Natural History Hall Chemical Laboratory

MUSEUMS AND COLLECTIONS

COLLEGE OF LITERATURE AND ARTS

Art.—A collection of casts, photographs, and engravings presented to the University in 1876 by citizens of the community has, for want of a suitable gallery, been placed in different buildings on the campus. Eight large statues are in the auditorium foyer. Numerous pieces of this collection are now in the studios of the department of art and design in University Hall, and others are used to decorate the corridors and class rooms of University Hall, Natural History Hall, and the Library. A collection of eighty-one German and Japanese prints purchased by the department of art and design from the St. Louis Exposition in 1905 is displayed in the rooms of the department of art and design.

Other collections of value to art students, consisting of a number of casts of Moorish, Spanish, and German ornament and miscellaneous casts, models, prints, and drawings, are placed in the studios and corridors of the department of art and design.

Classical Archaeology and Art.—This museum is located in Room 402 Lincoln Hall, and contains casts of important works of Greek and Roman sculpture; miscellaneous originals and models of Egyptian, Greek, and Roman antiquities; and over 1,100 mounted photographs of historic sites and archaeological remains in Greece,

Italy, and other parts of the ancient world. Over 1,100 slides belonging to the department of the classics are also available for illustrative purposes. The museum is open at regularly announced hours under the care of a custodian.

Commerce.—For its courses in industrial economics and commerce the University has a working collection of the materials of commerce; a lantern and several hundred slides; political and industrial maps; and diagrams and stereoscopic views illustrating various phases of commerce and industry. Most of the articles constituting the commercial museum are the gift of the Philadelphia Commercial Museum.

Education.—In the rooms of the department of education in University Hall is a collection of illustrative material from the manual training departments of various schools; photographs of school buildings; drawings and constructive work by pupils in the public schools; and the nucleus of a representative collection of apparatus for the school laboratory.

European Culture.—The Museum of European Culture is in the north wing of Lincoln Hall. The collection consists of casts of Romanesque, Gothic, and Renaissance art, models of early weapons and armor, facsimiles of miniatures and types of writing from medieval manuscripts, replicas of seals, reproductions of runic inscriptions, of early ivory carving, of musical instruments, etc. The purpose of the museum is to collect material to illustrate the history of European culture.

COLLEGE OF SCIENCE

Botany.—The herbarium contains about 65,000 mounted specimens of plants. The flora of North America are fairly well represented; the collection of species of flowering plants indigenous to Illinois is practically complete; and a collection of foreign species has been made. The collection of fungi amounts to 32,000 named specimens, and includes a set of those most injurious to other plants, causing rusts, moulds, etc.

Entomology.—The entomology collections of the University include an elementary reference series of 6,400 specimens, representing 1,600 common species; and the Bolter collection, donated to the University by the executors of the estate of the late Andreas Bolter, of Chicago, which now contains about 120,000 specimens representing over 16,000 species. The department has access, also, to the insect collections of the State Laboratory of Natural History, which

contain 312,000 pinned insects and 22,216 vials and bottles of specimens in alcohol, mainly from Illinois.

Geology.—The geology collections are to be found in the Natural History Building. Lithology is represented by type collections of rocks aggregating 9,000 specimens; 1,000 thin sections of rocks and minerals: ornamental building stones: a stratigraphic collection to illustrate Illinois geology; a collection of Illinois soils (104), and one of polished marbles, granites, and other ornamental stones. The mineralogy collection is rich in rock-forming minerals, ores, and materials of economic value. It contains over 12,000 specimens: 575 crystal models; and a collection of gems and precious stones. The paleontology collection (40,000 specimens) contains representative fossils from the entire geologic series, but is especially rich in paleozoic forms. It embraces the private collections of A. H. Worthen (including 742 type specimens): Tyler and McWhorter; Hertzer; the greater part of the collections made by the Geological Survey of the state under Worthen; 200 thin sections of corals and bryozoa; the Ward collection of casts; and special collections representing the fauna and flora of particular groups.

Zoölogy.—The zoölogy collections have been specially selected and prepared to illustrate the courses of study in zoölogy and to present a synoptical view of the zoölogy of the State. Most of them are placed in the new museum room in the Natural History Building, and in adjacent corridors. The mounted mammals include a collection of the ruminants of the United States and representatives of the other orders of Mammalia except the Sirenia. The same orders are also represented by mounted skeletons.

The collection of mounted birds includes representatives of all the orders and families of North America, together with a number of characteristic tropical, Bornean, and New Zealand forms. The collection is practically complete for Illinois species. There is also a collection of the nests and eggs of Illinois birds.

The cold-blooded vertebrates are represented by a series of mounted skins of larger species, both terrestrial and marine; mounted skeletons of typical representatives of the principal groups, alcoholic specimens; and casts. The alcoholics include series of the reptiles, amphibians, and fishes, the latter comprising about 300 species. The casts represent about seventy-five species, nearly all fishes.

The Mollusca are illustrated by alcoholic specimens of all classes and orders, and dissections showing the internal anatomy of typical forms. There are several thousand shells, belonging to more than 2,000 species. The collection of the Illinois aquatic species is nearly complete.

The lower invertebrates are represented by several hundred dried specimens and alcoholics, and by a series of Blaschka glass models.

The embryology of vertebrates and invertebrates is illustrated by several sets of Ziegler wax models and series of sections and other preparations.

In addition to the foregoing, the collections of the State Laboratory of Natural History are available for illustrative purposes, as well as for original investigation by advanced students.

COLLEGE OF ENGINEERING

Architecture.—The architecture collections include plaster casts of architectural detail and ornament; 9,400 lantern slides of architectural subjects and 900 slides of painting and sculpture; 20,000 classified plates, photographs, and 2,400 stereoscopic views; a working library of about 1,800 volumes on architecture and the allied arts; a collection of 300 examples of American woods, shown in three sections each; and collections of architectural drawings and of specimens of building materials, fittings, and appliances.

Civil Engineering.—The civil engineering department has samples of iron, steel, wood, brick, and stone; materials for roads and pavements; models of arches and trusses. The department also possesses a collection of photographs and blue-print working drawings of bridges, metal skeleton buildings, masonry structures, standard railroad construction, etc.

Electrical Engineering.—This department has a collection of samples illustrating standard practice in the industrial applications of electricity. There is also a growing collection of lantern slides, photographs, blue-prints, drawings, pamphlets, and other engineering data.

Mechanical Engineering.—This department includes in its equipment part of a set of Reuleaux models; models of valve gears; sections of steam pumps; injectors; valves, skeleton steam and water gauges; standard packings; steam-pipe coverings; and drop forgings. There are also examples of castings, perforated metal, defective boiler plates, and set of drills, with samples of oil, iron, and steel. A number of working drawings from leading firms form a valuable addition to these collections.

Mining Engineering.—This department has a complete exhibit

of sized coal as prepared by typical Illinois washeries, the raw materials and the finished products illustrating the briquetting of coal, models of a metalliferous mine and of timber and steel mine supports, a complete exhibit of explosive and blasting materials and appliances, the Draeger, Fleuss, and Westphalia breathing apparatus, and all of the appliances necessary for mine rescue and first aid demonstration, a collection of safety-lamps and other mine-lighting devices, and working drawings and photographs of mine machinery.

COLLEGE OF AGRICULTURE

The various agricultural departments maintain collections illustrative of their work; prominent among which are those showing typical specimens of standard varieties of corn; wax models of fruit and vegetables; a horticulture herbarium; specimens of breeds of live stock; a collection of farm machinery; and exhibits of negatives and samples showing the progress of certain investigations, especially with fruit, crops, and soils.

See further the description of the facilities for instruction and methods of work of the departments of agronomy, animal husbandry, dairy husbandry, and horticulture, pages 183 to 189.

LIBRARY SCHOOL

The School has made a collection of books and pamphlets on library science; of library reports and catalogs; of mounted samples showing methods of administration in all departments; of laborsaving devices and fittings; and of photographs and lantern slides illustrating the history of books and libraries.

LIBRARIES

(For the Library Staff see page 40)

The University Library includes all the books belonging to the colleges and schools of the University which are situated in Urbana. The library of the School of Pharmacy, numbering about 2,000 volumes, is in Chicago.

On October 1, 1912, the several libraries contained the following numbers of bound volumes and pamphlets:

	Volumes	Pamphlets
General library, including depart-		
mental collections	217,370	24,000
Pedagogical library	600	3,550
State Laboratory of Natural His-		
tory library	8,020	22,200
Pharmacy library	2,000	

The Library receives about 1,900 serial publications.

The Library is housed, for the most part, in the Library building, and is for the use of the whole University. The officers of instruction and administration of the University, the graduate students, and the members of the senior class have direct access to the shelves; other students may have this privilege upon the recommendation of their instructors. All students have the direct use of 10,700 volumes in the reading rooms, and in addition graduate students have the use of the seminar libraries.

As a part of the Library are included several special collections: The University of Illinois collection, including printed material illustrating the history of the University: about 300 volumes. College Publications collection, comprising the catalogs, announcements, reports, studies, etc., of other educational institutions: about Thesis collection, a complete file of the original 4.000 volumes. copies of the theses presented for graduation from the University of Illinois; they are bound and filed by years: 1,800 yolumes. The Dziatzko collection of Library Economy, bought in 1905, the entire library of Karl Dziatzko, librarian of Göttingen University: 300 volumes, 250 pamphlets. The Dittenberger collection of the Classics, bought in 1907, the entire library of Wilhelm Dittenberger, professor of Classical Philology in the University of Halle: 5,600 items. The Heyne collection, purchased by the University in 1909, the philological library of Professor Moritz Heyne, of the University of Göttingen: about 5,000 items, principally on German philology and literature. The Karsten collection, principally on French and German philology and literature, the library of the late Professor Gustaf E. Karsten, presented by Mrs. Eleanor G. Karsten. Gröber collection, purchased in 1912, the entire library of the late Professor Gustav Gröber, of Strasburg: 6,300 titles, principally on the Romance languages.

Twenty-one seminar and departmental collections are maintained in various buildings on the campus, including the six seminars in Lincoln Hall; these are primarily reference collections for the use of graduate students and advanced undergraduate students in the departments using the respective buildings. The hours of opening and the regulations for the use of these collections usually differ somewhat from the regulations printed below.

Mason Library of Western History. The library of western history collected by Edward G. Mason, Esq., long president of the

Chicago Historical Society, is in the Public Library of the city of Champaign, and is accessible to students in the University.

LIBRARY REGULATIONS

The General Library is primarily for free reference use. The privilege of drawing books is accorded to all officers of instruction and government, to all registered students, and to other accredited persons. Books not reserved for classes may be borrowed for home use for two weeks, and may be renewed for two weeks more if not specially restricted or called for. All books are subject to recall at any time when needed for university work.

General reference books, books reserved for classes, all general periodicals, and certain other groups of books are to be consulted in the reading rooms only. They may not be loaned from the Library except when the reading rooms are closed. They must then be returned by the time the Library next opens.

Books from the stack which are not returned on time are subject to a fine of two cents a day. Books from the reference, reserve, and periodical shelves, as well as some special collections, are subject to a fine of twenty-five cents a day if kept overtime. Books recalled for university work must be returned at once upon receipt of the notice. If not returned within two days after notice is mailed a fine of twenty-five cents a day is charged. All books lost or damaged must be replaced or paid for.

Hours of Opening. The General Library is open week days during the general sessions of the University, from 7:45 a.m. to 10 p.m., and on Sundays from 2 p.m. to 6 p.m. During the Summer Session, the Library is open from 7:45 a.m. to 10 p.m. on week days, but is not open on Sundays. During the summer vacation, the Library is open from 9 a.m. to 12 m. Permits may be given for use at other hours. The Library is regularly closed on New Year's, Independence, Labor, Thanksgiving, and Christmas days.

ADMINISTRATION

GOVERNMENT

The government of the University is vested by law primarily in a Board of Trustees, consisting of twelve members. The Governor of the State, the Superintendent of Public Instruction, and the President of the State Board of Agriculture are members ex officio. The other nine members are elected by the people of the State for terms of six years; the terms of three members expire every second year.

The administration of the University is vested by the Board of Trustees in the President of the University, the Senate, the Council of Administration, the Faculties of the several colleges, and the Deans of the colleges and Directors of the schools.

The President is the administrative head of the University.

The Senate is composed of the full professors and those other members of the faculty who are in charge of separate departments of the various colleges and schools. It is charged with the direction of the general educational policy of the University.

The Council of Administration is composed of the President, the Dean of the Graduate School, the Deans of Men and Women, and the Deans of the several colleges. It constitutes an advisory board to the President, and has exclusive jurisdiction over all matters of discipline. The Council does not determine educational policy; but when any matter arises which has not been provided for by common usage or by rule of the Senate and cannot be conveniently laid over till the next meeting of the Senate, the Council may act upon the same according to its discretion.

The Faculties of the colleges and schools of the University, composed of the members of the corps of instruction of these colleges and schools, have jurisdiction, subject to higher University authority, over all matters which pertain exclusively to these organizations.

The Dean of the Graduate School, the Deans of the several colleges, and the Directors of the schools are responsible for the carrying out of all University regulations within their respective departments.

The Dean of Men and the Dean of Women act as advisers to undergraduate students and are charged with the general care of the conduct of these students.

DEPARTMENTS AND COURSES

For the purpose of administration, the University is divided into several colleges and schools. These are not educationally separate, but are interdependent, and form a single unit.

The colleges and schools are as follows:

- I. The College of Literature and Arts
- II. The College of Science
- III. The College of Engineering
- IV. The College of Agriculture
 V. The Graduate School
- VI. The Library School
- VII. The School of Music
- VIII. The School of Education
 - IX. The School of Railway Engineering and Administration
 - X. The College of Law
 - XI. The School of Pharmacy

The College of Literature and Arts offers courses in-

- I. Philosophy and arts, including-
 - (a) The ancient classical languages
 - (b) The Romance languages
 - (c) The Germanic languages
 - (d) The English language and literature, including rhetoric
 - (e) Mathematics
 - The political and social sciences-(f)

History

Economics

Accountancy

Political science

Sociology

Philosophical subjects-(g)

Philosophy

Psychology

Education

- (h) Art
- (i) Household science

By the grouping of certain elective subjects students in this College are also offered opportunities for specific vocational training as follows:

- 2. Business Administration-
 - (a) General business
 - (b) Banking
 - (c) Accountancy
 - (d) Railway administration-

Railway traffic and accountancy Railway transportation

- (e) Insurance
- 3. Journalism
- 4. Household science and administration
- 5. Preliminary to law

The College of Science offers courses in-

- I. General science, affording opportunity to specialize in:
 - (a) Astronomy
 - (b) Botany
 - (c) Chemistry
 - (d) Education
 - (e) Entomology
 - (f) Geology, including mineralogy
 - (g) Household science
 - (h) Library science
 - (i) Mathematics
 - (j) Physics
 - (k) Physiology
 - (1) Psychology
 - (m) Zoölogy
- 2. Chemistry
- 3. Chemical engineering
- 4. Ceramics
- 5. Ceramic engineering
- 6. Household science
- 7. Preparation for medicine
- 8. Science and engineering (combined course)

The College of Engineering offers courses in-

- I. Architecture
- 2. Architectural engineering
- 3. Civil engineering

- 4. Electrical engineering
- 5. Mechanical engineering
- 6. Mining engineering
- 7. Municipal and sanitary engineering
- 8. Railway civil engineering
- 9. Railway electrical engineering
- 10. Railway mechanical engineering

The College of Agriculture offers courses in-

- I. Agronomy
- 2. Horticulture, floriculture, and landscape gardening
- 3. Animal husbandry
- 4. Dairy husbandry
- 5. Veterinary science
- 6. Household science
- 7. Agricultural extension
- 8. Teachers' course

Military science and physical training are provided in all the schools and colleges in Urbana.

The Graduate School offers courses in-

Philology, including the classical languages, Romance languages, Germanic languages, and English

Mathematics

Political and social sciences, including history, economics, sociology, and political science

Philosophy, including psychology and education

Physical sciences, including physics, chemistry, astronomy, and geology

Biology, including botany, zoology, entomology, and physiology Engineering, including architecture, architectural engineering, civil engineering, electrical engineering, mechanical engineering, mechanics, mining engineering, municipal and sanitary engineering, and railway engineering

Agriculture, including agronomy, animal husbandry, dairy husbandry, floriculture, horticulture, and thremmatology

Household science

The Library School offers a professional course of two years in preparation for the work of the librarian, leading to the degree of Bachelor of Library Science. Graduation from a college or university of approved standing is required for admission to the Library School.

The School of Music offers courses in vocal and instrumental music, leading to the degree of Bachelor of Music; and provides training in public school methods in music.

The School of Education enrolls, at the beginning of the junior year, students already registered in other colleges of the University who are preparing to teach, and directs their work for the remaining two years.

The School of Railway Engineering and Administration offers courses of study leading to the degree of Bachelor of Science in railway civil, railway electrical, and railway mechanical engineering; and also courses in railway transportation and in railway traffic and accountancy leading to the degree of Bachelor of Arts.

The Courses in Business Administration virtually constitute a school of commerce. They include courses in social and industrial economics, consular service, accountancy, banking, and railway administration, leading to the degree of Bachelor of Arts.

The College of Law offers a course of three years leading to the degree of Bachelor of Law. One year of college work in an institution of approved standing is required for admission to the College of Law.

Students holding the bachelor's degree in arts or science may become candidates in this College for the degree of Doctor of Law (J.D.).

The School of Pharmacy offers courses in the branches necessary to a scientific and practical knowledge of pharmacy, including pharmacy, chemistry, materia medica, botany, physics, and physiology. The courses lead to the degrees of Graduate in Pharmacy and Pharmaceutical Chemist.

The Summer Session, of eight weeks, offered in 1912 courses in accountancy, agricultural education, art and design, botany, chemistry, drawing (general engineering), economics, education, English, entomology, French, German, history, Latin, manual training, mathematics, mechanical engineering, mechanics (theoretical and applied), microscopical technique, philosophy, physical geography, physical training for men and for women, physics, political science, psychology, rhetoric, sociology, Spanish, and zoölogy.

All the courses given in the Summer Session are of collegiate grade and may be counted toward the bachelor's degree. Certain advanced courses may be counted toward the master's degree.

ADMISSION

GENERAL STATEMENT

An applicant for admission to any of the colleges or schools of the University must be at least 16 years of age. Candidates for admission to the School of Pharmacy (Chicago) must be 17 years of age.

Women are admitted to all departments under the same conditions and on the same terms as men.

Students may be admitted at any time, but should enter if possible at the beginning of the fall semester (in 1913, September 22) or at the beginning of the spring semester (in 1914, February 9) Students can seldom enter the College of Engineering to advantage except at the opening of the school year in September.

The entrance requirements for the undergraduate departments, including the colleges of Literature and Arts, Science, Engineering, and Agriculture, and the School of Music, amounting in each case to 15 units of high school work, are stated in detail immediately below.

The College of Law requires, in addition to 15 units of high school credit, one year of college work in arts, letters, and science in an institution having standards equal to those of the University of Illinois. (See page 243.)

The Library School requires a bachelor's degree in arts, letters, or science from an institution having standards equal to those of the University of Illinois. (See page 208.)

The School of Pharmacy (Chicago) requires for admission to its shorter course, leading to the degree of Graduate in Pharmacy, one year of high school work or the full educational equivalent; and for admission to its longer course, leading to the degree of Pharmaceutical Chemist, graduation from an accredited high school or the equivalent. (See page 252.)

ENTRANCE REQUIREMENTS OF THE UNDERGRADUATE COLLEGES

An applicant for admission to any one of the undergraduate departments—including the colleges of Literature and Arts, Science,

Engineering, and Agriculture, and the School of Music—must offer credit for fifteen (15) units of high school or other secondary school work, so chosen as to include:

- I. Those subjects prescribed alike by all the undergraduate departments (see List A below).
- II. Certain subjects prescribed in addition by the individual department which the student wishes to enter.
 - III. Enough electives to make up the required total of 15 units.

A unit is the amount of work represented by the pursuit of one preparatory subject, with the equivalent of five forty-minute recitations a week, through 36 weeks; or, in other words, the work of 180 recitation periods of forty minutes each, or the equivalent in laboratory or other practice.

I. Units Prescribed by All the Colleges (List A)

Of the 15 units required, the following $5\frac{1}{2}$ units, constituting List A, are prescribed for admission to the freshman class in all the undergraduate colleges of the University, and no substitutes are accepted.

List A. Units Prescribed by All the Colleges

English composition	I	unit
English literature	2	units
Algebra	11/2	units
Plane geometry	I	unit

II. ADDITIONAL PRESCRIPTIONS OF INDIVIDUAL COLLEGES

Of the 9½ units that remain, certain others are prescribed for admission by individual colleges, and in each case no substitutes are accepted by the college in question. These additional prescriptions are as follows:

Units Prescribed in Addition by Individual Colleges

For the College of Literature and Arts:

History		I	unit
Foreign	languages ¹	3	units

¹At least two of these must be in the same language. Three units in Latin must be presented if the student wishes to pursue the study of that subject in the University.

For the Colleges of Science and Agriculture:
· Science 2 units
For the College of Engineering:
Solid and spherical geometry ¹ / ₂ unit
Physics I unit
For the School of Music:
History I unit
Foreign languages ² 3 units
Music 2 units

III. ELECTIVES

The remainder of the required 15 units—after those prescribed (1) by all the colleges, and (2) by the individual college desired, have been counted—must be made up from the subjects in Lists B and C below. For the College of Literature and Arts, only two units from List C may be offered. For the Colleges of Science, Engineering, and Agriculture, three units from List C are accepted. No subject is accepted for an amount less than the minimum, or greater than the maximum, mentioned in the lists. For a description of the subjects required and accepted for admission see page 94.

List B. Electives

Astronomy18	weeks			1/2	unit
Botany18 or 36	weeks	$\frac{I}{2}$	or	I	unit
Chemistry36	weeks			I	unit
Civics18 or 36	weeks	$\frac{I}{2}$	or	I	unit
Commercial geography	weeks			$\frac{I}{2}$	unit
Drawing18 or 36	weeks	$\frac{I}{2}$	or	I	unit
Economics18	weeks			1/2	unit
English literature (3rd unit)36	weeks			I	unit
French36 to 14.	weeks	I	to	4	units
Geology18 or 36	weeks	1/2	or	I	unit
Geometry, solid and spherical18	weeks			$\frac{I}{2}$	unit
German36 to 14	weeks	I	to	4	units
Greek36 to 108	3 weeks	I	to	3	units
History36 to 106	3 weeks	I	to	3	units
Latin36 to 14-	weeks	1	to	4	units
Physics	weeks			I	unit
Physical geography18 or 36	weeks	$\frac{I}{2}$	or	I	unit

¹Two years of German are prescribed (as well as two units in science) for admission to the course in *chemical engineering* in the College of Science.

²At least two of these units must be in the same language.

Physiology .18 or 36 weeks ½ or 1 unit Spanish .36 to 72 weeks 1 to 2 units Trigonometry .18 weeks ½ unit Zoölogy .18 or 36 weeks ½ or 1 unit
List C.* Limited Electives
Agriculture36 to 72 weeks I to 2 units
Bookkeeping36 weeks I unit
Business law
Domestic science
Manual training†36 to 72 weeks I to 2 units
SUMMARY BY COLLEGES
The requirements listed above may be summarized by colleges as
follows:
For the College of Literature and Arts:
I. List A (prescribed by all the colleges) 5½ units
II. Special prescriptions by this college—
History I unit
Foreign languages (see foot-note, p. 76) 3 units III. Electives (not more than 2 units from List C) 5½ units
III. Electives (not more than 2 units from List C) 5½ units
15 units
For the Colleges of Science and Agriculture:
I. List A (prescribed by all the colleges) 5½ units
II. Special prescription by these colleges—
Science‡ 2 units
III. Electives (not more than 3 units from List C) 71/2 units
15 units
For the College of Engineering:
I. List A (prescribed by all the colleges) 5½ units
II. Special prescriptions by this college—
Solid and spherical geometry ½ unit
Physics I unit
III. Electives (not more than 3 units from List C) 8 units
15 units
15 units

^{*}The subjects named in List C must be taught in accordance with specifications which are set forth in the High School Manual. Further information may be had on application to the High School Visitor.

†In giving credit for manual training the University specifies that the work is to be done by competent teachers, as determined by inspection, and that credit shall not exceed one unit for 360 forty-minute periods of work, including the necessary drawing and shop work.

‡See also, for the College of Science, footnote 1 on page 77.

For	the	School	of	Music:
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I.	List A	(prescribed b	y a11	departments)	5½ units
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II. Special prescriptions by this school-

History	I	unit
Foreign languages (see foot-note, page 77)	3	units
Music	2	units

III. Electives (not more than 3 units from List C).. 31/2 units

15 units

METHODS OF ADMISSION

The credits required for admission to the undergraduate departments, as detailed above, may be secured:

- (a) By examination.
- (b) By certificate from an accredited high school or other secondary school.
- (c) By transfer from another university or college of recognized standing.

(A) ADMISSION BY EXAMINATION

I. THE UNIVERSITY ENTRANCE EXAMINATIONS

The University entrance examinations are given at the University in Urbana (in Room 228, Natural History Building) three times in each year: in September, immediately before the opening of the fall semester; in January, shortly before the opening of the spring semester; and in July, during the Summer Session.

These examinations cover all the subjects required or accepted for admission, as outlined in the "Description of Subjects Accepted for Admission" on pages 94 to 103.

For programs of these three sets of examinations for 1913-1914, see pages 85, 86, and 87.

II. THE COLLEGE ENTRANCE EXAMINATION BOARD EXAMINATIONS

The certificate of the College Entrance Examination Board, showing a grade of 60 per cent. or higher, will be accepted for admission in any subject in the lists on pages 94 to 103, under the usual restrictions of the University governing amount of credit. These examinations will be held during the week of June 16-21, 1913.

All applications for examination must be addressed to the Secretary of the College Entrance Examination Board, Post Office Sub-Station 84, New York, N. Y., and must be made upon a blank form to be obtained from the Secretary of the Board upon application.

Applications for examination at points in the United States east of the Mississippi River, also at Minneapolis, St. Louis, and other points on the Mississippi River, must be received by the Secretary of the Board at least two weeks in advance of the examinations; that is, on or before Monday, June 2, 1913; applications for examination elsewhere in the United States or in Canada must be received at least three weeks in advance of the examinations; that is, on or before Monday, May 26, 1913; and applications for examination outside of the United States and Canada must be received at least five weeks in advance of the examinations; that is, on or before Monday, May 12, 1913.

Applications received later than the dates named will be accepted when it is possible to arrange for the admission of the candidate concerned, but only upon the payment of \$5.00 in addition to the usual fee.

The examination fee is \$5.00 for all candidates examined at points in the United States and Canada, and \$15.00 for all candidates examined outside of the United States and Canada. The fee (which cannot be accepted in advance of the application) should be remitted by postal order, express order, or draft on New York to the order of the College Entrance Examination Board.

A list of the places at which examinations are to be held by the Board in June, 1913, will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

III. THE NEW YORK REGENTS' EXAMINATIONS

Credits will be accepted, also, from the examinations conducted by the Regents of the University of the State of New York.

(B) ADMISSION BY CERTIFICATE FROM AN ACCRED-ITED PREPARATORY SCHOOL

Blank certificates for students wishing to enter the University by certificate from an accredited high school or academy may be had of the Registrar. They should be obtained early and should be filled out and sent in to the Registrar for approval as soon as

possible after the close of the high school year in June. Certificates received at the University after September 18 (in 1913) will be held until the arrival of the student unless such certificates are accompanied by an addressed envelope with a special delivery stamp.

ACCREDITED SCHOOLS

The High School Visitor of the University visits and inspects on request high schools and other preparatory schools throughout the State. On the basis of his reports, approved by the Committee on Accredited Schools and by the Council of Administration, the University accredits all work which is found to be sufficiently well done. For a list of Accredited Schools, correct to January I, 1913, see page 88. Not all the schools named in this list, however, are accredited for the same amount of work nor all for the same subjects. A student presenting a certificate from any one of these schools will be given entrance credit for all the subjects named therein for which the said school is specifically accredited as shown in the certificate of its accredited relation issued to the school by the University.

Entrance credits will also be accepted on certificate from the following sources:

- 1. From schools accredited by the North Central Association of Colleges and Secondary Schools.
- 2. From schools accredited to the state universities which are included in the membership of the North Central Association of Colleges and Secondary Schools.
- 3. From the state normal schools of Illinois and other state normal schools having equal requirements for graduation.
- 4. From schools approved by the New England College Entrance Certificate Board.

FOREIGN STUDENTS

Candidates for admission who come from foreign countries should bring complete official credentials. Certificates from oriental countries should be accompanied by certified translations. Upon arriving at the University foreign students should consult with the Adviser to Foreign Students, Room 214, Lincoln Hall.

Examination in Rhetoric 1

Those students who show by examination a proficiency in composition sufficient to qualify them for the second semester's work in Rhetoric I may be excused from the first semester's work. An examination to test such proficiency will be given at 7:00 p. m., on the first day of registration (in 1913, September 22). The results of this examination will be announced the following morning. Students who try this examination should defer their registration until they learn whether or not they have passed in the examination.

(C) ADMISSION BY TRANSFER OF ENTRANCE CREDITS FROM OTHER COLLEGES OR UNIVERSITIES

A person who has been admitted to another college or university of recognized standing will be admitted to this University upon presenting a certificate of honorable dismissal from the institution from which he comes and an official statement of the subjects upon which he was admitted to such institution, provided it appears that the subjects are those required here for admission by examination or real equivalents. No substitutes will be accepted for the subjects prescribed for all colleges or by individual colleges as indicated above (pages 74-79).

For admission to advanced standing by transfer of college credits see page 84 below.

Students intending to transfer to the University of Illinois should send an official statement of their college credits, accompanied by a summary of their preparatory work and by a letter of honorable dismissal, to the Registrar as early in the summer as possible.

CONDITIONED FRESHMEN

A student who lacks not more than 2 of the 15 units required for matriculation may be entered as a conditioned freshman, provided the deficiencies are not in work which should precede the prescribed courses of the first semester, and provided that all his entrance conditions are such as can be made up during his first year.

A conditioned student is not matriculated and must pay a tuition fee of \$7.50 a semester in addition to the regular incidental fee of \$12.00 a semester.

No student having entrance conditions may register for a second year in the University, except on the recommendation of the faculty of the college or school in which he is enrolled, approved by the Council of Administration. Only in rare and especially meritorious cases will such permission to continue as a conditioned student be granted.

ADMISSION AS SPECIAL STUDENTS

Persons over twenty-one years of age may be admitted as special students, provided they secure (1) the recommendation of the professor whose work they wish to take, and (2) the approval of the dean of the college concerned. They must give evidence that they possess the requisite information and ability to pursue profitably, as special students, their chosen subjects, and must meet the special requirements of the particular colleges in which they wish to enroll, as stated below.

A special student is not matriculated and must pay a tuition fee of \$7.50 a semester in addition to the regular incidental fee of \$12.00 a semester.

No one may enroll as a special student in any school or college of the University for more than two years, except by special permission, application for which must be made through the dean of the college.

A person registered as a special student in one college and desiring to take a course in another college of the University must obtain the approval of the dean of the latter college.

Special Requirements of Particular Colleges

The College of Literature and Arts requires a written application, accompanied by official certificates, indicating the character and extent of the applicant's preparatory work, and showing honorable dismissal from the school last attended. In order that action may be taken on such applications before registration they should be presented at least one week before the beginning of the semester.

The College of Engineering requires that applicants for admission as special students shall satisfy the entrance requirements in mathematics and English (one and one-half years of algebra, one year of plane geometry, one-half year of solid geometry, one year of English composition, and two years of English literature).

The College of Agriculture will receive, in the school year 1913-1914, non-matriculants twenty years old or over, provided that if deficient in English as measured by the requirements for matriculation they shall arrange to carry English as one subject until that deficiency is made good; and provided further, in the case of men, that they shall have had at least two years of experience in practical agriculture. Beginning in September, 1914, the age limit for special students in the College of Agriculture will be raised to twenty-one years.

The Library School requires a written application, accompanied by official certificates, indicating the character and extent of the applicant's preparatory and college work and showing honorable dismissal from the institution last attended. In order that action may be taken on such applications before registration they should be presented not later than one week before the beginning of the academic year.

It is the practice of this School to admit as special students only those mature persons who, though unable to meet the formal requirements for entrance, are substantially prepared for thorough and advanced work. Such persons must present evidence of possessing the requisite information and ability to pursue the chosen subjects profitably, and some substitute for the regular requirements for entrance, such as approved library or teaching experience, foreign travel, etc. Preference will be given to those already engaged in library work, especially in Illinois, who may desire more adequate training in particular subjects.

ADMISSION TO ADVANCED STANDING

After matriculation, an applicant may secure advanced standing either by examination or by transfer of credits.

- 1. By examination.—Advanced standing is granted only by examination unless the applicant is from an approved school.
- 2. By transfer of credits.—Credits may be accepted for advanced standing from another university or college of recognized standing, from a state normal school, or from an accredited high school (not more than the equivalent of one unit unless the high school course exceeded four years in length). An applicant for advanced standing by transfer must present a certified record of work done in the institution from which he comes, accompanied (except in cases of transfer from high schools) by a letter of honorable dismissal. Students intending to transfer to the University of Illinois should send their credentials to the Registrar as early in the summer as possible.

PROGRAMS OF UNIVERSITY ENTRANCE EXAMINATIONS

The University entrance examinations are given at the University in Urbana (in Room 228, Natural History Building) three times in each year: in September, immediately before the opening of the

fall semester; in January, shortly before the opening of the spring semester; and in July, during the Summer Session.

The scope of these examinations is indicated in the "Description of Subjects Accepted for Admission," pages 94 to 103.

Admission to the examinations is by permit. Permits may be obtained of the Registrar, 321 Natural History Building.

SUMMER EXAMINATIONS, JUNE, JULY, 1913

*Zoology, ½ unit, or I unitSat.,	June	28,	8:00 a.m.
*Botany, ½ unit, or I unitSat.,	June	28,	10:00 a.m.
*Chemistry, I unitSat.,	June	28,	I:00 p.m.
†Physiology, ½ unit, or I unitSat.,	June	28,	3:30 p.m.
English literature, 2 units	July	5,	8:00 a.m.
English composition, I unitSat.,	July	5,	10:30 a.m.
*Physics, I unitSat.,	July	5,	I:00 p.m.
†Physical geography, ½ unit, or I unitSat.,	July	5,	3:30 p.m.
Commercial geography, ½ unitSat.,	July	5,	3:30 p.m.
‡History, 1, 2, or 3 unitsSat.,			
Civics, ½ unit, or 1 unit	July	12,	I:00 p.m.
Economics, ½ unitSat.,	July	12,	3:30 p.m.
Algebra, 1½ unitsSat.,	July	19,	8:00 a.m.
Astronomy, ½ unitSat.,	July	19,	10:30 a.m.
Geology, ½ unit, or I unitSat.,	July	19,	10:30 a.m.
Plane geometry, I unit	July	19,	I:00 p.m.
Solid and spherical geometry, ½ unitSat.,	July	19,	3:30 p.m.
Latin, 1, 2, 3, or 4 units	July	26,	8:00 a.m.
Bookkeeping, 1 unitSat.,	July	26,	10:30 a.m.
Trigonometry, ½ unit	July	26,	10:30 a.m.
German, I, 2, 3, or 4 units	July	26,	1:00 p.m.
French, 1, 2, 3, or 4 unitsSat.,	July	26,	I:00 p.m.
Spanish, I unit, or 2 unitsSat.,	July	26,	1:00 p.m.
Business law, 1/2 unit	July	26,	3:30 p.m.

The time for examinations in agriculture, domestic science, manual training, freehand or mechanical drawing, Greek, and the fourth unit in English, will be arranged with candidates.

^{*}Note-book required.

[†]Note-book required for 1 unit; not required for ½ unit.

Three units may be offered in history, made up from the following: Ancient history to 800 A. D., 1 unit; medieval and modern history, 1 unit; English history, ½ unit, or 1 unit; American history, ½ unit, or 1 unit.

FALL EXAMINATIONS. SEPTEMBER, 1913

*Chemistry, 1 unitMon.,	Sept.	15,	I:00 p.m.
Geology, ½ unit or 1 unitMon.,	Sept.	15,	1:00 p.m.
Astronomy, 1/2 unitMon.,	Sept.	15,	3:30 p.m.
Trigonometry, 1/2 unitMon.,	Sept.	15,	3:30 p.m.
‡History, 1, 2, or 3 unitsTues.,	Sept.	16,	8:00 a.m.
English literature, 2 unitsTues.,	Sept.	16,	1:00 p.m.
English composition, I unitTues.,	Sept.	16,	3:30 p.m.
Latin, 1st unit, or 2nd unit, or bothWed.,	Sept.	17,	8:00 a.m.
*Physics, I unitWed.,	Sept.	17,	8:00 a.m.
†Physical geography, 1/2 unit or 1 unitWed.,	Sept.	17,	10:30 a.m.
Algebra, 1½ unitsWed.,	Sept.	17,	1:00 p.m.
Civics, ½ unit or 1 unit	Sept.	17,	3:30 p.m.
Economics, 1/2 unitWed.,	Sept.	17,	3:30 p.m.
Geometry, plane, 1 unitThurs.,	Sept.	18,	8:00 a.m.
Geometry, solid and spherical, 1/2 unitThurs.,	Sept.	18,	10:30 a.m.
†Physiology, 1/2 unit or I unitThurs.,	Sept.	18,	10:30 a.m.
German, 1st unit, or 2nd unit, or bothThurs.,	Sept.	18,	1:00 p.m.
German, 3rd unit, or 4th unit, or both Thurs.,	Sept.	18,	3:30 p.m.
French, 1st unit, or 2nd unit, or bothThurs.,	-		I:00 p.m.
French, 3rd unit, or 4th unit, or bothThurs.,	-		3:30 p.m.
Spanish, 1st unit, or 2nd unit, or bothThurs.,	-		1:00 p.m.
Business law, ½ unitThurs.,	. •	,	I :00 p.m.
Commercial geography, ½ unitThurs.,	-		3:30 p.m.
Latin, 3rd unit, or 4th unit, or bothFri., Bookkeeping, 1 unitFri.,			8:00 a.m. 8:00 a.m.
*Botany, ½ unit or 1 unit			8:00 a.m.
*Zoology, ½ unit or 1 unitFri.,	-		

The time for examinations in agriculture, domestic science, manual training, freehand or mechanical drawing, Greek, and the fourth unit in English, will be arranged with applicants.

*Note-book required.

[†]Note-book required for 1 unit; not required for ½ unit. ‡Three units may be offered in history, made up from the following: Ancient history to 800 A. D., 1 unit; medieval and modern history, 1 unit; English history, ½ unit, or 1 unit; American history, ½ unit, or 1 unit.

MID-YEAR EXAMINATIONS, JANUARY, 1914

*Chemistry, 1 unit	.Mon.,	Jan.	5,	8:00	a.m.
Geology, 1/2 unit or I unit	.Mon.,	Jan.	5,	8:00	a.m.
Astronomy, 1/2 unit	. Mon.,	Jan.	5,	10:30	a.m.
Trigonometry, 1/2 unit	.Mon.,	Jan.	5,	10:30	a.m.
‡History, 1, 2, or 3 units	.Mon.,	Jan.	5,	I :00	p.m.
English literature, 2 units	Sat.,	Jan.	10,	8:00	a.m.
English composition, I unit	Sat.,	Jan.	10,	10:30	a.m.
Latin, 1st unit, or 2nd unit, or both	Sat.,	Jan.	10,	I:00	p.m.
*Physics, I unit	Sat.,	Jan.	10,	1:00	p.m.
†Physical geography, ½ unit or 1 unit	Sat.,	Jan.	10,	3:30	p.m.
Algebra, 1½ units	Sat.,	Jan.	17,	8:00	a.m.
Civics, 1/2 unit or I unit	Sat.,	Jan.	17,	10:30	a.m.
Economics, ½ unit	Sat.,	Jan.	17,	10:30	a.m.
Geometry, plane, 1 unit	Sat.,	Jan.	17,	1:00	p.m.
Geometry, solid and spherical, 1/2 unit	Sat.,	Jan.	17,	3:30	p.m.
†Physiology, ½ unit or I unit	Sat.,	Jan.	17,	3:30	p.m.
German, 1st unit, or 2nd unit, or both	Sat.,	Jan.	24,	8:00	a.m.
German, 3rd unit, or 4th unit, or both	Sat.,	Jan.	24,	10:30	a.m.
French, 1st unit, or 2nd unit, or both	Sat.,	Jan.	24,	8:00	a.m.
French, 3rd unit, or 4th unit, or both	Sat.,	Jan.	24,	10:30	a.m.
Spanish, 1st unit, or 2nd unit, or both	Sat.,	Jan.	24,	8:00	a.m.
Business law, 1/2 unit	Sat.,	Jan.	24,	8:00	a.ın.
Commercial geography, ½ unit	Sat.,	Jan.	24,	10:30	a.m.
Latin, 3rd unit, or 4th unit, or both	Sat.	, Jan.	24	I :00	p.m.
Bookkeeping, I unit					p.m.
*Botany, 1/2 unit or 1 unit	Sat.,	Jan.	24,	1:00	_
*Zoology, ½ unit or I unit	Sat.	, Jan.	24,	3:30	p.m.

The time for examinations in agriculture, domestic science, manual training, freehand or mechanical drawing, Greek, and the fourth unit in English, will be arranged with applicants.

^{*}Note-book required.

[†]Note-book required for 1 unit; not required for ½ unit. ‡Three units may be offered in history, made up from the following: Ancient history to 800 A. D., 1 unit; medieval and modern history, 1 unit; English history, ½ unit, or 1 unit; American history, ½ unit, or 1 unit.

LIST OF ACCREDITED SCHOOLS

[Correct to January 1, 1913]

The following high schools, having all the *prescribed* units, and enough others to make up the *required total* of 15 units, are in the list of fully accredited schools.

Not all of these schools, however, are accredited for the same amount of work, nor all for the same subjects. A student presenting a certificate from any one of these schools will be given entrance credit for all the subjects named therein for which the said school is specifically accredited, as shown in the certificate of its accredited relation issued by the University.

The High School Visitor of the University inspects high schools not previously accredited upon request, if the request is accompanied by a report of the school which shows that it merits such inspection. The University accredits all work which is thus found to be sufficiently well done. For further particulars address The High School Visitor, in care of the University of Illinois.

FULLY ACCREDITED SCHOOLS

SCHOOL	SUPERINTENDENT	PRINCIPAL
ABINGDON	A. C. BUTLER	W. B. Rose
ALBION	LEWIS OGILVIE	LEE V. MATHENY
ALEDO	F. N. TAYLOR	
Altamont	WILLIAM HARRIS	WILLIAM HARRIS
ALTON	R. A. HAIGHT	B. C. RICHARDSON
Амвоч	GEORGE W. BEATTIE	M. GRACE CAVINS
Anna	F. C. PROWDLEY	CHARLES McGINNIS
Arcola	SHELDON R. ALLEN	INA L. RABB
ARISPIE-INDIANTOWN (Tiskila	va)	A. W. Hussey
Arlington Heights	A. E. HUBBARD	ELEANOR CROW
Ashland	JAMES G. NORRIS	HARRIET MORTON
Assumption Tp.		H. G. SPEAR
Astoria		BESSIE CONDAY
Atlanta	N. J. Robinson	
Atwood	ARTHUR W. NIEDERMEYER	O. W. ALLEN
Auburn	CHAS. E. KUECHLER	
Augusta	C. B. WHITEHOUSE	A. E. DECKER
AUGUSTANA COLLEGE ACAD.		C. W. Foss
AURORA EAST	C. M. BARDWELL	C. E. LAWYER
Aurora West	C. E. Douglass	
AVERYVILLE (Peoria P. O.)		ERMA RELLER
BARRY	HENRY S. STICE	BERTHA WHITE

SCHOOL SUPERINTENDENT H. A. Bone BATAVIA H. G. RUSSELL BEARDSTOWN RELLEVILLE GEORGE H. BUSIEK BELLFLOWER TP. EUGENE D. MERRIMAN RELVIDERE N. N. STEVENSON BEMENT BENTON TP. BIGGSVILLE TP. J. K. STABLETON BLOOMINGTON BLOOM TP. (Chicago Heights) J. E. LEMON BLUE ISLAND BRADLEY POLY. INST. (Peoria) BRIDGEPORT TP. BUSHNELL R. C. HIETT T. C. CLENDENEN CAIRO H. M. HINKLE CAMBRIDGE CAMP POINT W. H. BREWSTER G. W. GALER CANTON H. AMBROSE PERRIN CARLINVILLE M. N. Topp CARLYLE CARMI Toseph Gerschbacher CARROLLTON E. A. DOOLITTLE R. G. CRISENBERRY CARTERVILLE D. H. WELLS CARTHAGE COLLEGE ACADEMY W. G. THOMPSON CASEY CATLIN I. E. LUNG CENTRALIA TP. W. W. EARNEST CHAMPAIGN DEWITT ELWOOD CHARLESTON L. C. SMITH A. B. HIETT CHATSWORTH CHENOA S. E. REECHER CHESTER ELLA FLAGG YOUNG CHICAGO AUSTIN BOWEN CALUMET CARL SCHURZ CRANE, R. T. (Tech.) ENGLEWOOD HYDE PARK LAKE LAKE VIEW LANE TECHNICAL McKINLEY MARSHALL. MEDILL

TULEY

CHILLICOTHE TP.

CHRISMAN

CLAYTON

WALLER, ROBERT A. WENDELL PHILLIPS

C. S. MONTOOTH

I. W. MORGAN

CHICAGO LATIN SCHOOL

PRINCIPAL

K. C. MERRICK MRS. H. G. RUSSELL H. W. BRUA P. M. WATSON GEORGE N. BRADLEY H. H. STRAUCH E. S. LAKE A. E. ROBINSON WILLIAM WALLIS E. L. BOYER I. E. LEMON T. C. BURGESS, Dir. T. A. DAVIS MARY C. RASMUSSEN MARGARET WILSON MABEL GABRIELSON FLORENCE L. KOBER IRA P. RINKER MARGARET HUBBARD CLYDE D. HARRIS CHAS. MOSSBERGER WM. J. EATON L. L. Jones A. M. Wilson H. D. HOOVER. Pres. W. PAUL WYATT

ESTON V. TUBBS
LOTTIE SWITZER
LESTER R. McCARTY
EDNA WHITE
MAUDE FAIRFIELD
J. L. BOWMAN

GOE. H. ROCKWOOD CHAS. I. PARKER Avon S. Hall WALTER F. SLOCUM W. J. BARTHOLF THOS. G. HILL JAS. E. ARMSTRONG HIRAM B. LOOMIS EDWARD F. STEARNS BENJ. F. BUCK W. J. BOGAN GEO. M. CLAYBERG Louis J. Block ALBERT A. SABIN FRANKLIN P. FISK OLIVER S. WESTCOTT SPENCER R. SMITH R. P. BATES CHAS. C. DICKMAN HELEN BOOKER I. W. MORGAN

SCHOOL	SUPERINTENDENT	PRINCIPAL
CLINTON	H. H. EDMUNDS	J. D. KNIGHT
Colfax	P. M. Hoke	LIDA J. SMITH
Collinsville Tr.		A. E. ARENDT
CRYSTAL LAKE	H. A. DEAN	ELIZABETH HUGHES
DALLAS CITY	T. J. HANEY	ELSIE H. GIESE
DANVILLE	L. H. GRIFFITH	A. W. SMALLEY
DECATUR	H. B. WILSON	Jesse H. Newlon
DEERFIELD Tr. (Highlan	d Park)	R. L. SANDWICK
DEKALB TP.	D W D	F. M. GILES
DELAVAN	R. W. BARDWELL	M. P. COWDIN
Dixon	W. R. SNYDER	CHAS. H. ANDERSON
DIXON NORTH	H. V. BALDWIN	MABEL PROCTOR
DOWNER'S GROVE	G. C. BUTLER	M. MAUDE MANLEY
DRUMMER TP. (Gibson C		B. L. PILCHER
DRURY ACADEMY (Aledo	')	Frank Clare English, Pres.
Dundee	E. C. FISHER	EDNA BEERS
DuQuoin Tr.	D. C. IIIII	C. W. Houk
Dugoon 12.	C. A. BROTHERS	OMAR ROOSA
EARLVILLE	F. L. BENNETT	Nellie L. Smith
EAST ST. LOUIS	D. WALTER POTTS	H. J. ALVIS
EDWARDSVILLE	CHAS. F. FORD	E. IRVING BELOTE
Effingham	L. W. CHATHAM	C. H. PFINGST
ELDORADO TP.		MARTIN T. VANCLEVE
Elgin	ROBERT I. WHITE	W. L. GOBLE
ELGIN ACADEMY		LLOYD S. RULAND
ELIZABETH	R. I. Lewis	HELEN N. TORRENCE
ELMHURST	GUY CANTWELL	JOHN C. HOSKINSON
ELMWOOD	C. C. CONDIT	HARRIET ERLBACHER
ELPASO	C. H. BRITTIN	ISABEL M. VANDERVORT
EVANGELICAL PROSEMINA	R (Elmhurst)	DANIEL IRION, Dir.
EVANSTON TP.		W. F. BEARDSLEY
EVANSTON ACADEMY		N. W. HELM
FAIRBURY	E. W. Powers	MYRTLE STAFFORD
FAIRFIELD	C. H. Wilson	H. D. WILLARD
FARMER CITY TP.		John E. Demmer
FARMINGTON	H. L. Dyar	ESTHER HEDQUIST
FERRY HALL (Lake Fore		Frances Laura Hughes
Forrest	H. H. BAUMGARDNER	MAUDE SHUTT
FRANCES SHIMER ACADI	EMY (Mt. Carroll)	WM. P. McKee, Dean
FRANCIS W. PARKER SC		FLORA J. COOKE
FREEPORT	S. E. RAINES	L. A. Fulwider
Fulton	HARRY B. PRICE	PEARL B. FLATT
GALENA	E. G. Mason	KATHARINE OBYE
GALESBURG	W. L. STEELE	A. W. WILLIS
GALVA	F. U. WHITE	LILLIE R. PAISLEY
GENESEO COLLEGIATE I	NST	F. E. RICE, Pres.
GENESEO TP.	H. M. COULTRAP	A. J. BEATTY LESTER S. PARKER
GENEVA	B. F. KEPNER	Addie M. White
Genoa Georgetown Tp.	O. P. REES	ELIZABETH HOLADAY
	JOHN C. REEDER	MABEL L. MILLER
GILMAN GRAND PRAIRIE SEM. (H. H. Frost, Pres.
GRAND PRAIRIE SEM. (L. P. FROHARDT	PERRY H. HILES
GRANITE CITY GREENFIELD	L. W. RAGLAND	A. C. REESE
GREENFIELD	L. II. MAGLARD	III O. REESE

GREENVIEW J. P. SCHEID HAZEL ALKIN GREENVILLE S. S. SIMPSON MAMIE E. GRAFF GRIGGSVILLE W. L. HAGAN ROBERTA AMRINE HAMILTON J. A. JOHNSTON PHILENA CLARKE HARRISBURG TP. HARTER-STANFORD TP. (Flora) HARVARD J. H. LIGHT J. E. ALMON HARVARD SCHOOL (Chicago) HAVANA T. S. HENRY MRS. SARA E. PIN HERRY W. E. KING PHILLIPINE MARIS HERRIN TP. P. H. HELLYAR T. H. SCHUTTE HEYWOATH L. R. BLOHM ETHEL L. HARPOLI HIGHLAND C. L. DIETZ PEARL T. BROWN HILLSBORO H. L. COX HARRY J. BECKEMI HISBORO H. L. COX HARRY J. BECKEMI HISBORO H. B. FISHER REX TRABUE	
GREENVILLE S. S. SIMPSON MAMIE E. GRAFF GRIGGSVILLE W. L. HAGAN ROBERTA AMRINE HAMILTON J. A. JOHNSTON PHILENA CLARKE HARRY TAYLOR HARRY TAYLOR HARVARD J. H. LIGHT J. E. ALMON HARVARD SCHOOL (Chicago) HAVANA T. S. HENRY MRS. SARA E. PII HENRY W. E. KING PHILLIPINE MARIE HERRIN TP. P. H. HELLYAR T. H. SCHUTTE HEYWORTH L. R. BLOHM ETHEL L. HARFOLL HIGHLAND H. L. COX HARRY J. BECKEMI	
GRIGGSVILLE W. L. HAGAN HAMILTON J. A. JOHNSTON HARRISBURG TP. HARRE-STANFORD TP. (Flora) HARVARD HARVARD HAVARD HAVANA T. S. HENRY HENRY HENRY HENRY W. E. KING HERRIN TP. HERVORTH L. R. BLOHM HILLSBORO H. L. COX HARRY J. ROBERTA AMRINE PHILLENA CLARKE HARRINE HARRY TAYLOR HARRY J. E. ALMON J. J. SCHOBINGER RRS. SARA E. PII PHILLIPINE MARIE T. H. SCHUTTE ETHEL L. HARROLL HIGHLAND H. L. COX HARRY J. BECKEMIN	
HAMILTON J. A. JOHNSTON PHILENA CLARKE HARRISBURG TP. HARRISBURG TP. HARRY TAYLOR O. A. TOWNS HARVARD J. H. LIGHT J. E. ALMON HARVARD SCHOOL (Chicago) HAVANA T. S. HENRY HERRY W. E. KING PHILLIPINE MARIE HERRIN TP. HERWORTH L. R. BLOHM HIGHLAND C. L. DIETZ HELL HARROLL HILLSBORO H. L. COX HARRY J. BECKEMI	
HARRISBURG TP. HARRY TAYLOR O. A. TOWNS HARVARD HARVARD HARVARD SCHOOL (Chicago) HAVANA T. S. HENRY HENRY W. E. KING HERRIN TP. HEY	
Harter-Stanford Tp. (Flora) Harvard J. H. Light J. E. Almon Harvard School (Chicago) Havana T. S. Henry Mrs. Sara E. Pii Henry W. E. King Phillipine Marie Herrin Tp. P. H. Hellyar T. H. Schutte Heyworth L. R. Blohm Ethel L. Harpoll Highland C. L. Dietz Pearl T. Brown Hillsboro H. L. Cox Harry J. Beckemi	
Harvard J. H. Light J. E. Almon Harvard School (Chicago) Havana T. S. Henry Mrs. Sara E. Pii Henry W. E. King Phillipine Maris Herrin Tp. P. H. Hellyar T. H. Schutte Heyworth L. R. Blohm Ethel L. Harroll Highland C. L. Dietz Pearl T. Brown Hillsboro H. L. Cox Harry J. Beckem	
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Henry W. E. King Phillipine Marie Herrin Tp. P. H. Hellvar T. H. Schutte Heyworth L. R. Blohm Ethel L. Harpoli Highland C. L. Dietz Pearl T. Brown Hillsboro H. L. Cox Harry J. Beckemi	
HERRIN TP. P. H. HELLYAR T. H. SCHUTTE HEYWORTH L. R. BLOHM ETHEL L. HARPOLI HIGHLAND C. L. DIETZ PEARL T. BROWN HILLSBORO H. L. COX HARRY J. BECKEMI	ERCE
HEYWORTH L. R. BLOHM ETHEL L. HARPOLIHIGHLAND C. L. DIETZ PEARL T. BROWN HILLSBORO H. L. COX HARRY J. BECKEMI	PFAFF
HIGHLAND C. L. DIETZ PEARL T. BROWN HILLSBORO H. L. COX HARRY J. BECKEMI	
HILLSBORO H. L. COX HARRY J. BECKEMI	3
HINSDALE H. B. FISHER REX TRABUE	EYER
HITTLE TP. (Armington) EUNICE BLACKBUR	N
HOMER W. D. MADDEN GLEN C. HICKLE	
HOOPESTON S. K. McDowell Helen A. Mills	
HUME T. A. GALLAHER D. FRANK FLEMIN	r G
ILLIOPOLIS W. P. SULLIVAN ZETA JACKSON	
ILLINOIS WOMAN'S COL. ACAD. (Jacksonville) Jos. R. HARKER, H	res.
INDUSTRY TP. ROBERT D. HILL	
JACKSONVILLE W. A. FURR ADOLPH GORE	
JENNINGS SEMINARY (Aurora) BERTHA A. BARBEI	R
JERSEYVILLE J. PIKE JOHN A. EGELHOF	
JOHN SWANEY SCHOOL (McNabb) LEE O. YODER	
JOLIET TP. J. STANLEY BROWN	a a
J. STERLING MORTON TP. (Clyde) H. V. CHURCH	•
KANKAKER F. N. TRACY C. H. KINGMAN	
KANSAS R. B. HENLEY NEVA B. WILEY	
KENWOOD INSTITUTE (Chicago) Mrs. Stella Dyer	LORING
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KINMUNDY E. V. LATHAM EMMA M. BRYAN	
KNOXVILLE G. G. LAFFERTY SYLVIA E. SMITH	
LAHARPE T. W. EVERITT Mrs. Nelle Coni	ADV
LAKE FOREST ACADEMY W. M. LEWIS	LADI
LANARK O. W. HOFFMAN OLIVE ELLIS	
LASALLE-PERU TP. (LaSalle) T. J. McCormace	
LAWRENCEVILLE TP. F. W. Cox	•
LENA F. P. DORMER ELSIE ENGLISH	
LEROY H. H. KIRKPATRICK A. B. KORB	
Lewistown M. N. Beeman Alice Voegelein	
Lexington J. H. Smith Theodore F. Fiek	
	EK
LOCKPORT TP. G. R. SWAIN CHAS. C. STRICKLAND MARIE E. WALLIN	_
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Lovington Tp. O. C. Bailey	_
Lyons Tp. (LaGrange) RALPH W. PRINGL	R
McLeansboro W. C. Fairweather L. G. Hickman	
MACOMB T. M. BIRNEY E. L. KING	
Madison Louis Baer Henry H. Janssei	
MAINE TP. (DesPlaines) CHAS. S. STEWAR	Г
MANSFIELD J. A. ALEXANDER MABEL E. WILLIA	MS

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Marengo	ALBERT REEP	HENRY PECKMAN
MARION TP.		E. G. LENTZ
Marissa Tp.		Roy Jordan
Marseilles	E. A. Collins	ELINORE A. BATES
MARSHALL TP.		LEWIS W. WILLIAMS
MARTINSVILLE	HAROLD BRIGHT	HARRY L. RYAN
MASON CITY	G. A. Buzzard	L. B. CURRY
MATTOON	G. P. RANDLE	J. F. WILEY E. C. SHIELDS
MAZON TP.		
Mendon	R. N. MALCOMSON	HAZEL McCREARY
MENDOTA	J. H. Browning	LILLIAN A. PURKHISER
METROPOLIS	M. N. McCartney	HAROLD J. MOORE
MILFORD TP.	H. W. McCulloch	M. F. LUMMIS
Minonk	B. R. Morris	Marie Jemsen
Moline	C. H. MAXSON	E. P. NUTTING
Momence	R. J. WALTERS	E. E. ROBBINS
Monmouth	CHAS. E. JOINER	Mary Findley
Monticello	A. W. Gross	Myrtle Cruzon
Monticello Seminary (Go	dfrey)	MARTINA C. ERICKSON
Morgan Park Academy		HARRY D. ABELLS
Morgan Park Tp.	T D M	J. H. HIEL
Morris	E. D. MARTIN	L. C. Robey
Morrison	W. E. WEAVER	MARY L. BARNES
Morton Tr.		T. L. Cook
Mt. CARMEL	A. S. Anderson	HARRIET BERNINGER
Mt. Carroll	G. V. Clum	GAYLE H. AU
Mt. Sterling	M. L. TEST	Agnes M. Gunther
MT. VERNON TP.	0 111 11	JAS. M. DICKSON
Moweagua	C. W. YERKES	Myrtle Gregory
Murphysboro Tp.	0 4 337	G. J. Koons
Naperville	O. A. WATERMAN	V. BLANCHE GRAHAM
NASHVILLE	J. M. AVERY	J. K. SKINNER
NEOGA TP.		DEAN M. INMAN
NEWMAN TP.	C F C	J. H. Trinkle J. H. Pursifull
Newton	C. E. GIRHARD	H. E. Brown
NEW TRIER TP. (Kenilwort)		
Nokomis	HENRY BUELLSFIELD	NELLIE SEEGAR
NORMAL	E. W. DAVIS	W. A. GOODIER C. J. WILSON
NORTH PARK COL. ACAD. (C		THOMAS FINKBEINER
NORTHWESTERN COLLEGE A		Col. H. P. Davidson
Northwestern Military A	G. W. Sutton	BESSIE GALLAHER
		J. CALVIN HANNA
OAK PARK & RIVER FOREST OBLONG	Roscoe R. Smith	J. M. WATERS
Opell	V. T. SMITH	HELEN M. LYONS
OLNEY	H. W. Hostettler	B. Y. ALVIS
Onarga	S. E. LEMARR	M. C. CLEVENGER
Oregon	F. G. TAYLOR	MI. C. CLEVENGER
OTTAWA TP.	r. G. TATLOR	W. F. MOZIER
PALESTINE	H. B. URBAN	R. A. Fraley
PANA TP.	II. D. URBAN	W. E. Andrews
Paris	T. W. B. EVERHART	T. J. BEECHER
PAWNEE TP.	1. W. D. EVERDARI	J. O. STANBERRY
PAWPAW	W. C. SUFT	Julia H. Suft
PAXTON	O. J. BAINUM	HARRY LATHROP
ABAIUN	O. J. DAINOM	TIME CALIEVE

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PEKIN	J. J. CROSBY	WM. F. SHIRLEY
PEORIA		
CENTRAL	GERARD T. SMITH	A. W. BEASLEY
MANUAL TRAINING	GERARD T. SMITH	WM. Brown
Petersburg	H. A. PAINE	CHAS. C. FOLEY
PITTSFIELD	O. H. BLOSSOM	NELLIE A. MOORE
PLAINFIELD	L. H. DARLINE	EVELYN B. WINBOLT
PLANO	R. E. LOCKE	W. S. Pope
Polo	C. F. MILLER	MARY C. STRICKLER
PONTIAC TP.	3, 1, 1,1,1,1,1,1	ARTHUR VERNER
PRINCETON TP.		W. R. SPURRIER
Prophetstown	W. F. STEWART	RICHARD H. WOLFE
Proviso Tr. (Maywood)	W. I. Silwal	JOHN E. WITMER
Quincy	E. G. BAWMAN	S. W. EHRMAN
RANTOUL	E. H. MILLER	JESSIE MCHARRY
Ridgefarm	Louis A. Tohill	
Riverside	A. F. AMES	J. FRANCES DODGE
ROBINSON TP.	A. F. AMES	T. H. ZIEGLER
ROCHELLE	LEWIS A. MAHONEY	J. O. MARBERRY
		T. R. Johnston
ROCK FALLS	E. O. PHARES	Lulu A. Miller
ROCKFORD	P. R. WALKER	C. P. BRIGGS
ROCK ISLAND	H. B. HAYDEN	A. J. BURTON
ROODHOUSE	HARVEY T. WHITE	AUGUST W. HUBER
Roseville Tp.	T 4 0	H. L. KESSLER
Rossville	I. A. SMOTHERS	E. G. ABBOTT
Rushville	CHAS. E. KNAPP	LAURA L. KNOWLES
RUTLAND	W. E. GUTTERIDGE	EDITH SCHRODER
St. Charles	FAITH McAuley	FRANCES ADAMS
St. Elmo	R. W. JENNINGS	DEAN PARRILL
St. Mary's Academy (Q		MOTHER MARY MAGDAL
SALEM	M. A. THRASHER	E. G. LEANDER
SANDWICH	W. W. WOODBURY	MAUD WEBSTER
SAVANNA TP.		F. T. GOODIER
Saybrook	L. F. FULWILER	HOWARD BARCLAY
SHEFFIELD	J. H. MARTIN	LAURA SCHOETTLER
SHELBYVILLE	A. F. LYLE	J. T. DORRIS
SHELDON	F. L. Holch	I. R. BERKEMA
SIDELL TP.		SHERMAN CASS
SOUTHERN COLLEGIATE I	NST. (Albion)	FRANK B. HINES. Pres.
SPARTA	F. C. Scott	St. John W. Wilton
SPRINGFIELD	J. H. Collins	F. D. THOMSON
STANFORD	B. T. ADKINS	LILLY STIEGETMEIER
STAUNTON	WM. E. ECCLES	ELLEN A. MUIER
STERLING TP.		E. T. AUSTIN
STOCKLAND TP.		H. M. THRASHER
STOCKTON	MYRTLE RENWICK	PARKER NOLL
STORINGTON	G. E. LOWRY	GAIL REBMAN
STREATOR TP.	G. E. Lowki	O. A. RAWLINS
SULLIVAN	T. H. FINLEY	
SYCAMORE	K. D. WALDO	CLARA SINCLAIR
TAYLORVILLE TP.	R. D. WALDO	GRACE M. EDWARDS
		R. G. BEALS
		L. W. SMITH
THORNTON Tr. (Harvey)		0 5 0
THORNTON TP. (Harvey) Foulon Tp. Tuscola	J. T. KIRK STANLEY MORRIS	C. E. GRIFFITH CARSON H. BEANE

SUPERINTENDENT

WHITE HALL

WILMINGTON

WINCHESTER

WOODSTOCK

WYOMING

YORKVILLE

SCHOOL

URBANA	A. P. Johnson	M. L. FLANING
Union Academy (Anna)		FRED W. McCI
URSULINE ACADEMY (Spring	ngfield)	MOTHER PAUL
VANDALIA	D. B. FAGER	HARRY L. TATE
VERMILLION ACADEMY (Ve	ermilion Grove)	EDITH C. SHUG
VILLA DE CHANTAL (Rock	Island)	MOTHER F. BOR
Virden	P. M. SILLOWAY	CLARENCE C. C.
VIRGINIA	A. M. SANTEE	LAURA MASON
WALNUT	T. F. McLamarrah	J. G. Deininger
WARREN	O. E. TAYLOR	OLIVET BUSER
Washburn	H. A. RITCHER	Olga E. Seewai
WASHINGTON	Р. М. Ѕмітн	IRA DINGLEDINE
WATERLOO	James E. Raibourn	KARL W. MITCE
Watseka	L. W. HAVILAND	MARY J. LAYCOC
WAUKEGAN TP.		W. C. KNOELK
WENONA	E. F. Nichols	Fred H. Cox
WEST CHICAGO	L. A. RISNER	NORMA CONYNE
W. ILL. St. NORMAL ACAD	o. (Macomb)	W. P. MORGAN
WESTERN MIL. ACADEMY		
(Upper Alton)	A. M. Jackson	F. Engelhardt
WESTFIELD COL. ACAD.		J. C. Morgan
WHEATON		ELLEN M. GREG
WHEATON COL. ACAD.	J. B. Russell	W. S. Pembert
WHIPPLE ACADEMY (Jacks	onville)	Samuel O. Wei

M. L. FLANINGAM FRED W. McClusky MOTHER PAUL HARRY L. TATE EDITH C. SHUGART MOTHER F. BORGIA CLARENCE C. COOL LAURA MASON G. DEININGER OLIVET BUSER OLGA E. SEEWALD IRA DINGLEDINE KARL W. MITCHELL Mary J. Laycock W. C. Knoelk FRED H. Cox NORMA CONYNE

PRINCIPAL

F. ENGELHARDT J. C. MORGAN ELLEN M. GREGG W. S. PEMBERTON SAMUEL O. WELDAY

BERTHA ELDRED BERTHA C. DUERKOP W. E. EVANS MARY DUNN MRS. RACHEL GRIMWOOD

PARTIALLY ACCREDITED SCHOOLS

HEYWOOD COFFIELD

W. H. HUGHES

E. C. THOMAS C. I. MARTIN

L. G. YENERICH

J. B. HENDRICKS

E. A. HUFF D. D. McRUER Keithsburg RAYMOND W. F. GROTTS MAY HEFLIN St. ALBAN'S SCHOOL (Knoxville) LUCIAN F. SENNETT

DESCRIPTION OF SUBJECTS ACCEPTED FOR ADMISSION

The amount of work in each of the foregoing subjects which corresponds to the minimum number of credits assigned is shown by the description of subjects below.

AGRICULTURE.—Courses in agriculture should be arranged for periods of not less than 36 weeks. Such a course may be accepted for one unit of entrance credit, and two such courses may be accepted for two units, provided the work covered by each course is so closely related in its parts as to constitute one of the generally accepted divisions now recognized in agricultural work. At least one-half the time should be devoted to laboratory work, and notebooks should be presented.

- 2. ALGEBRA.—Fundamental operations, factoring, fractions, simple equations, involution, evolution, radicals, quadratic equations and equations reducible to the quadratic form, surds, theory of exponents, and the analysis and solution of problems involving these.
- 3. ASTRONOMY.—In addition to a knowledge of the descriptive matter in a good text-book, there must be some practical familiarity with the geography of the heavens, with the various celestial motions, and with the positions of the conspicuous naked-eye heavenly bodies.
- 4. BOOK-KEEPING.—The unit of work in book-keeping for college entrance should consist of a working knowledge for both single and double entry book-keeping for the usual lines of business. The student should be able to change his books from single to double entry and from individual to proprietorship. At least one set of transactions should be kept by single entry and at least two sets by double entry in which the uses of the ordinary book-keeping books and commercial papers should be involved. The student should be drilled in the making of profit and loss statements and of balance sheets and should be able to explain the meanings of the items involved in both kinds of instruments. The work should be done under the immediate supervision of a teacher and the student should devote at least ten periods of not less than forty minutes full time in class each week for one academic year.
- 5. Botany.—A familiar acquaintance with the general structure of plants, and of the principal organs and their functions, derived to a considerable extent from a study of the objects, is required; also a general knowledge of the main groups of plants; and the ability to classify and name the more common species. Laboratory note-books and herbarium collections should be presented.
- 6. Business Law.—The amount of business law which is accepted is indicated by the ground covered in any of the ordinary text-books on the subject, such as Spencer's Elements of Commercial Law, Burdick's Business Law, and White's Elements of Commercial Law.
- 7. CHEMISTRY.—The instruction must include both text-book and laboratory work. The work should be so arranged that at least one-half of the time shall be given to the laboratory. The course as it is given in the best high schools in one year will satisfy the requirements of the University for the one unit for admission. The

laboratory notes, bearing the teacher's indorsement, must be presented as evidence of the actual laboratory work accomplished. Candidates for admission may be required to demonstrate their ability by laboratory tests.

- 8. CIVICS.—Such an amount of study of the American Government, its history and interpretation, as is indicated by any of the usual high school text-books on civil government, is regarded as sufficient for one term. The work may advantageously be combined with the elements of political economy.
- 9. Commercial Geography.—The amount and character of the work accepted in this subject is indicated by the scope of such books as Redways' Commercial Geography, Adam's smaller book on the same subject, the text-books of Brigham, or Robinson, or Trotter's work.
- 10. Domestic Science.—(a) An equivalent of 180 hours of prepared work with at least two recitation periods a week in foods. (b) An equivalent of 180 hours of prepared work with at least one recitation period a week in clothing. (c) An equivalent of 180 hours of prepared work with at least two recitation periods a week on the home. (Two periods of laboratory work are considered equivalent to one period of prepared work.) Of the foregoing, (a) will be accepted as a unit's work; or two half units taken from (a) and (b), or (a) and (c), or (b) and (c) will be accepted as a unit's work. The work is to be done by trained teachers with individual equipment, as determined by inspection.
- 11. Drawing.—Free-hand or mechanical drawing, or both, Drawing-books or plates must be submitted. The number of credits allowed depends on the quantity and quality of the work submitted.
- 12. Economics.—The principles of economics, with economic history, as given in any good elementary text-book.
- 13. ENGLISH COMPOSITION AND RHETORIC.—Correct spelling, capitalization, punctuation, paragraphing, idiom, and definition; the elements of rhetoric. The candidate will be required to write two paragraphs of about one hundred fifty words each to test his ability to use the English language. This work counts for one unit.
- 14. English Literature.—(a) Each candidate is expected to have read certain assigned literary masterpieces, and will be subjected to such an examination as will determine whether or not he has done so. With a view to a large freedom of choice, the books provided for reading are arranged in the following groups, from

which at least ten units are to be selected, two from each group. Each unit is here set off by semicolons.

I. The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the Iliad, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; the Odyssey, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; Vergil's Aeneid. The Iliad, the Odyssey, and the Aeneid should be read in English translations of recognized literary excellence.

For any unit of this group a unit from any other group may be substituted.

II. Shakespeare's Merchant of Venice; Midsummer Night's Dream; As You Like It; Twelfth Night; Henry the Fifth; Julius Caesar.

III. Defoe's Robinson Crusoe, Part I; Goldsmith's Vicar of Wakefield; either Scott's Ivanhoe or Quentin Durward; Hawthorne's House of Seven Gables; either Dickens's David Copperfield or Tale of Two Cities; Thackeray's Henry Esmond; Mrs. Gaskell's Cranford; George Eliot's Silas Marner; Stevenson's Treasure Island.

IV. Bunyan's Pilgrim's Progress, Part I; The Sir Roger de Coverley Papers in the Spectator; Franklin's Autobiography (condensed); Irving's Sketch Book; Macaulay's Essays on Lord Clive and Warren Hastings; Thackeray's English Humorists; selections from Lincoln, including the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, and the Letter to Horace Greeley, with a brief memoir or estimate; Parkman's Oregon Trail; either Thoreau's Walden or selections from Huxley's Lay Sermons; Stevenson's Inland Voyage and Travels with a Donkey.

V. Palgrave's Golden Treasury (First Series), Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, Burns; Gray's Elegy in a Country Churchyard and Goldsmith's Deserted Village; Coleridge's Ancient Mariner and Lowell's Vision of Sir Launfal; Scott's Lady of the Lake; Byron's Childe Harold, Canto IV, and Prisoner of Chillon; Palgrave's Golden Treasury (First Series), Book IV, with especial attention to Wordsworth, Keats, and Shelley; Poe's Raven, Longfellow's Courtship of Miles Standish, Whittier's Snow Bound; Macaulay's Lays of Ancient

Rome and Arnold's Sohrab and Rustum; Tennyson's Gareth and Lynette, Lancelot and Elaine, The Passing of Arthur; Browning's Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Hervé Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City.

(b) In addition to the foregoing the candidate will be required to present a careful, systematic study, with supplementary reading,

of the history of either English or American literature.

(c) The candidate will be examined on the form and substance of certain books in addition to those named under (a). For 1913 the books will be selected from the list below. The examination will be of such a character as to require a minute study of each of the works named in order to pass it successfully. The list is:

Shakespeare's Macbeth; Milton's Comus, L'Allegro, and Il Penseroso; Burke's Speech on Conciliation with America, or Washington's Farewell Address and Webster's First Bunker Hill Oration; Macaulay's Life of Johnson, or Carlyle's Essay on Burns.

The work outlined in (a), (b), and (c) counts for two units.

- (d) The three units in English composition, rhetoric, and literature, as described above, are required for all students. A fourth unit may be obtained for one full year's additional work in the study of English and American authors.
- 15. French.—First year's work.—Elementary grammar, with the more common irregular verbs. Careful training in pronunciation. About 100 pages of easy prose should be read.

Second year's work.—Advanced grammar, with all the irregular verbs. Elementary composition, and conversation. About 300 pages of modern French should be read.

Third year's work.—Intermediate composition, and conversation. About 500 pages of standard authors should be read, including a few classics.

Fourth year's work.—Advanced composition, and conversation. Standard modern and classical authors should be read and studied to the extent of 700 pages.

16. Geology.—The student must show familiarity with the principles of dynamic and structural geology, and some acquaintance with the facts of historical geology as presented in Scott's Introduction to Geology, Brigham's Text-book of Geology, or an equivalent, together with at least an equal amount of time spent in

laboratory and field work. The laboratory work should follow one or more of the lines indicated below, and note-books should be presented showing the character and amount of work done.

(a) Studies of natural phenomena occurring in the neighborhood which illustrate the principles of dynamic geology. Each study should include a careful drawing of the object and a written description of the way in which it was produced. (b) Studies of well-marked types of crystalline, metamorphic, and sedimentary rocks which will enable the student to recognize each type and state clearly the conditions under which it was formed. (c) Studies of minerals of economic value, including the characteristics of each, its origin, and the uses to which it is put. (d) Studies of the types of soil occurring in the neighborhood, including the origin of each and the cause of differences in appearance and fertility.

- 17. Geometry.—(a) Plane Geometry. Special emphasis is placed on the ability to use propositions in the solution of original numerical exercises and of supplementary theorems.
- (b) Solid and Spherical Geometry. Applications to the solution of original exercises are emphasized.
- 18. German.—It is recommended that pupils be trained to understand spoken German and to reproduce freely in writing and orally what has been read. Whatever method of teaching is used, however, a thorough knowledge of grammar is expected. No attempt is made in what follows to give more than a general outline for the work of successive years, but the German department welcomes inquiries from teachers who wish further suggestions in the planning of courses.

First Year's Work.—At the end of the year pupils should be able to read intelligently and with accurate pronunciation simple German prose, to translate it into idiomatic English, and to answer in German easy questions on the passage read. A few short poems may well be memorized. Elementary grammar should be mastered up to the subjunctive as arranged in most books for beginners. Easy prose composition rather than the writing of forms will be the test of this grammatical work in entrance examinations given by the University.

Second Year's Work.—Only modern writers should be read, preference being given to material which has a distinctly German atmosphere and which lends itself readily to conversational treatment in the class room. The regular recitations should afford constant oral and written drill on the elementary grammar of the previous year. In addition, the beginner's book should be completed, but more importance is attached to accuracy and facility in simple modes of expression than to a theoretical knowledge of advanced syntax.

Third Year's Work.—Most of the time should still be devoted to good modern prose. There should be some work in advanced prose composition—based on German models—and the daily recitations should continue to afford abundant oral practice. Pupils ought by this time to understand spoken German fairly well.

Fourth Year's Work.—At the end of this year a pupil should be able to read at sight any prose or verse of moderate difficulty. He should also be able to express himself or ally or in writing with considerable readiness and a high degree of accuracy. It is recommended that work in composition take the form of free reproduction of portions of the texts studied rather than translation of English selections. The reading should be divided about equally between modern and classical authors.

19. Greek.—First Year's Work.—The exercises in any of the beginning books, and one book of the Anabasis or its equivalent.

Second year's work.—Two additional books of the Anabasis and three of Homer, or their equivalents, together with an amount of Greek prose composition equal to one exercise a week for one year.

Third year's work.—Three additional books of the Iliad, three of the Odyssey, and Books VI, VII, VIII of Herodotus, or an equivalent from other authors.

20. HISTORY.—One, two, or three units may be presented, to be chosen from the following list:

Ancient history to 800 A. D., one unit.

Medieval and modern history, one unit.

English history, one-half or one unit.

American history, one-half or one unit.

Examinations for entrance will be given in all these subjects. The examination for each unit is intended to cover one full year of high school work.

21. LATIN.—First year's work.—Such knowledge of inflections and syntax as is given in any good preparatory Latin book, together with the ability to read simple fables and stories.

Second year's work.—Four books of Cæsar's Gallic War, or its equivalent in Latin of equal difficulty; the ability to write simple Latin based on the text.

Third year's work.—Six orations of Cicero; the ability to write simple Latin based on the text; the simpler historical references and the fundamental facts of Latin syntax.

Fourth year's work.—Six books of Vergil, with history and mythology; the scansion of hexameter verse.

- 22. MANUAL TRAINING.—The requirement for one-half unit is the equivalent of 180 forty-minute periods in manual training following the syllabus prepared by the manual training section of the High School Conference.
- 23. Music.—Credit in music is not accepted on certificate, but only by examination at the University, and only for admission to the School of Music. In the examination for two units in biano, students are required to play the following or the equivalent: Simple scales and arpeggios at fairly rapid tempo; scales in double octaves at a moderate speed; Bach, two-part invention; Czerny, Op. 220; an easy sonata of Haydn, Mozart, or Beethoven. In the examination for two units in voice, students are required to sing the following or the equivalent: Simple scales and arpeggios; studies selected from Concone, Sieber, Panofka, and Panseron; songs selected from Schubert, Schumann, and Mendelsshon. In the examination for two units in violin, students are required to play the following or the equivalent: Gordon's Fountain Studies: Hermann's Scale Studies; Wohlfahrt's Etudes, Book I; Kayser's Etudes; Pleyel, Duet: selections from Weiss and Blumenstengel; miscellaneous pieces by Daucla, Papini, Weidig, Sitt, etc.
- 24. Physics.—One year's high school work covering the elements of physical science as presented in the best of the current high school text-books of physics. Laboratory practice in elementary quantitative experiments should accompany the text-book work. The candidate's laboratory note-book will be considered as part of the examination.
- 25. Physical Geography.—The amount and character of the work required may be seen by referring to the texts of Gilbert and Brigham, or Davis; the recitations must be supplemented by at least an equal amount of time devoted to laboratory work. The laboratory exercises should follow one or more lines such as are indicated below. Each student should present a note-book showing what he has done.

- (a) Studies in mathematical geography in which map and scale only are used. These should embrace such topics as length of a degree in longitude in various latitudes; length and breadth of continents, etc., in degrees and miles; relative latitudes of places; distances between cities, etc., in degrees and miles; difference in length of parallels and meridians; problems in time; location of time belts, etc.
- (b) Studies of local topographic features which illustrate the various phases of stream work. Each study should include a drawing or topographic map of the object, and a full, clear description of the way in which it was formed.
- (c) Studies of glacial deposits as shown in terminal and ground moraines, kames, eskers, etc.; distribution of dark and light colored soils; occurrences of lakes, ponds, gravel beds, clay banks, and water-bearing strips of sand and gravel.
- (d) Studies of stream work as shown in the topographical sheets which may be obtained from the United States Geological Survey at a nominal cost.
- (e) Studies of the form, size, direction and rate of movement of high and low barometer areas, and the relation of these to direction of wind, character of cloud, distribution of heat, and amount of moisture in the air, as shown in the daily weather maps. Later these studies should lead to the making of weather maps from the data furnished by the daily papers, and to local prediction of weather changes based on the student's own observation.
- (f) Studies of the climate of various countries compared with our own, the necessary data being derived from such topographic, rainfall, wind, current, and temperature maps as are found in Sydow-Wagner's or Longman's atlases.
- 26. Physiology.—For one-half unit: The anatomy, histology, and physiology of the human body and the essentials of hygiene, taught with the aid of charts and models to the extent shown in Martin's Human Body (Briefer Course). For more than one-half unit, the course must include practical laboratory work.
- 27. Spanish.—First year's work.—Elementary grammar, including thorough drill in the irregular verbs; careful training in pronunciation, and translation of simple Spanish when spoken; reading of about 100 pages of easy prose; simple composition and dictation.

Second year's work.—In addition to the foregoing, about 300-

pages of modern prose; elementary syntax; dictation, composition, and translation of spoken Spanish continued.

28. Trigonometry.—The work should cover the field of plane trigonometry, as given in standard text-books, including the solution of right and oblique triangles. Special emphasis is placed upon the solution of practical problems, trigonometric identities, and trigonometric equations.

20. Zoology.—The instruction must include laboratory work equivalent to four periods a week for a half-year, besides the time required for text-book and recitation work. Note-books and drawings must be presented to show the character of work done and the types of animals studied. The drawings are to be made from the objects themselves, not copied from illustrations, and the notes are to be a record of the student's own observations of the animals examined. The amount of equipment and the character of the surroundings must, of course, determine the nature of the work done and the kind of animals studied: but in any case the student should have at least a fairly accurate knowledge of the external anatomy of each of eight or ten animals distributed among several of the larger divisions of the animal kingdom, and should know something of their life histories and of their more obvious adaptations to environment. It is recommended that special attention be given to such facts as can be gained from a careful study of the living animal. The names of the largest divisions of the animal kingdom, with their most important distinguishing characters, and with illustrative examples selected, when practicable, from familiar forms, ought also to be known.

GRADUATION---FIRST DEGREES

THE BACHELOR'S DEGREE

A bachelor's degree is conferred upon any student who satisfactorily completes the course of study described under one of the various colleges and schools, doing either the first three years, or the last year, of his work in residence at the University.

RESIDENCE REQUIREMENT

If the student is in residence at the University for one year only, that years' work must be taken in the college from which the degree is expected. No person will be recommended for a degree by the faculty of any college in the University unless he has been a regularly registered student in that college for at least one year.

REQUIREMENTS FOR GRADUATION

A candidate for a bachelor's degree must pass in the subjects marked prescribed in his chosen course, and must conform to the directions given in connection with that course in regard to electives. In the Colleges of Literature and Arts, of Science, and of Agriculture, credit for 130 hours is required for graduation. In the College of Engineering, in the College of Law, in the Library School, and in the School of Music, the candidate must complete the course of study as laid down.

MILITARY SCIENCE AND PHYSICAL TRAINING

The number of hours required includes, for men, five in military drill and tactics and two in physical training; and for women, three in physical training. Men excused from the military requirements, and women who do not take the course in physical training, must elect instead an equivalent number of hours in other subjects.

THESIS

In all cases in which a thesis is required,* the subject must be announced not later than the first Monday in November, and the

^{*} See requirements for graduation in the various colleges.

completed thesis must be submitted to the dean of the proper college by June 1. The work must be done under the direction of the professor in whose department the subject belongs, and must be in the line of the course of study for which a degree is expected. The thesis must be presented upon regulation paper, and is deposited in the library of the University.

SECOND BACHELOR'S DEGREE

A student who has already received one bachelor's degree may receive a second bachelor's degree, provided that all specified requirements for both degrees be fully met, and provided also that the course offered for the second degree include at least 30 semester hours not counted for the first degree.

LIST OF FIRST DEGREES

- 1. The degree of Bachelor of Arts is conferred on those who complete a course in the College of Literature and Arts, or certain courses in the College of Science.
- 2. The degree of BACHELOR OF SCIENCE is conferred on those who complete a course in the College of Engineering or in the College of Agriculture. This degree is conferred on a graduate of the College of Science who completes a course in ceramics or in chemistry and may be conferred on graduates from other courses in this College on recommendation of the faculty.
- 3. The degree of Bachelor of Laws is conferred on those who complete the course in the College of Law.
- 4. The degree of Bachelor of Library Science is conferred on those who complete the course in the Library School.
- 5. The degree of BACHELOR OF MUSIC is conferred on those who complete one of the courses in the School of Music.
- 6. The degree of Graduate in Pharmacy, or of Pharmaceutical Chemist, is conferred on those who complete the shorter and the longer courses, respectively, in the School of Pharmacy.

HONORS AND COMPETITIONS

UNIVERSITY HONORS

The University gives public official recognition to such students as attain a high grade of scholarship by the following system of honors:

Preliminary Honors are assigned on the completion of the sophomore year. The number of persons to whom honors are awarded may not exceed one-tenth of the membership of the sophomore class. The basis of assignment is the scholarship of the student during the freshman and sophomore years. A failure disqualifies a student for receiving these honors. Preliminary Honors afford an opportunity for sophomores to secure recognition for high scholarship without waiting for graduation.

Final Honors* are assigned on graduation. The basis for the assignment is the scholarship of the student during the junior and senior years. Not more than one-tenth of the senior class may receive such honors. Final Honors are given to seniors in recognition of high scholarship, the terms being designed especially to favor students whose preparatory education has been so imperfect as to prevent them from receiving preliminary honors. A failure received in the junior or the senior year disqualifies a student for receiving Final Honors.

Special Honors are awarded at the close of the senior year. No student may receive such honors who has not completed, before the beginning of his senior year, at least twenty hours' work in the subject, or group of allied subjects, in which the honors are proposed; he must complete thirty hours' work in the same subject, or group of allied subjects, by the end of his senior year, must do such other work as the professor in charge may assign, and must prepare an acceptable thesis. No student is eligible for special honors who, during the senior year, has received a grade of less than eighty per

^{*}Honors on Graduation.—The rules governing honors on graduation in the College of Literature and Arts are stated on pages 145, 146 following. The rules given above apply to the other undergraduate colleges and schools of the University.

cent in any subject. Special honors are planned for especially brilliant students who prefer to concentrate their efforts upon a special course. A student may be a recipient of both final and special honors.

The names of students receiving honors are published in the Annual Register of the University. (See Part V.)

DEBATING AND ORATORY

The University engages yearly in four intercollegiate debates, the teams for which are chosen in a series of competitive preliminaries to which all students are eligible. Through the generosity of Hon. William B. McKinley a gold watch-fob is presented to every speaker who represents the University, either in debate or in oratory.

THE CENTRAL DEBATING CIRCUIT OF AMERICA is an association formed by the universities of Illinois, Iowa, Minnesota, Nebraska, and Wisconsin. It holds a debate at each university on the Friday evening following the Thanksgiving recess.

THE STATE UNIVERSITY DEBATING LEAGUE consists of the state universities of Illinois, Indiana, and Ohio. Under its auspices three debates are held upon the second Friday in March, each university sending out an affirmative and a negative team.

THE NORTHERN ORATORICAL LEAGUE, consisting of Northwestern University, Oberlin College, and the state universities of Illinois, Iowa, Michigan, Minnesota, and Wisconsin, holds an annual contest on the first Friday evening in May. The contest for 1913 will be held on May 2, at Oberlin College, Oberlin, Ohio. The winner receives the Lowden testimonial of one hundred dollars, and the speaker awarded second place, fifty dollars. The Illinois representative is selected in competitive contests open to all undergraduates.

THE INTERCOLLEGIATE PEACE Association holds an annual state and an inter-state oratorical contest to which representatives of this University are eligible. Orations must be upon some phase of the peace question. Cash prizes are offered in the state and inter-state contests.

A Freshman-Sophomore Debate and an Inter-Society Declamation Contest are held yearly.

The names of students who represented the University in debate and oratory in 1911-1912 are given in the list of honors at the end of this volume

THE INTERSCHOLASTIC ORATORICAL PRIZE

A medal of the value of twenty dollars, and two medals of the value of ten dollars each, are offered annually by the University to the high schools of the State for the best oration delivered in a competitive contest between their representatives. This contest takes place in the spring at the time of the interscholastic athletic meet—in 1913, on May 16.

THE BRYAN PRIZE

In 1898 Mr. William Jennings Bryan gave to the University the sum of two hundred and fifty dollars, from the interest on which a prize of twenty-five dollars is offered biennially for the best essay on the science of government. The contest is open to all matriculated undergraduate students. The essays may not be less than three thousand, nor more than six thousand, words in length, and must be left at the President's office not later than the second Wednesday in May. The prize was offered for the first time in 1901. It will be offered next in 1913.

B'NAI B'RITH PRIZES

The Champaign and Urbana lodge of the Independent Order of B'nai B'rith has donated to the University the sum of fifty dollars, to be awarded in prizes to students of the University for essays on Jewish subjects. The sum named is the first of five annual contributions to be given for this purpose. For information in regard to the conditions governing the award of the prizes, address the Registrar, University of Illinois, Urbana, Illinois.

ARCHITECTURE

THE FRANCIS J. PLYM FELLOWSHIP IN ARCHITECTURE

By the generosity of Mr. Francis J. Plym, of Niles, Michigan, a graduate of the University of Illinois of the class of 1897, the Trustees have been enabled to establish a fellowship for the advanced study of architecture. The stipend attached to this fellowship is \$1,000, awarded annually by competition in Architectural Design. The holder of the fellowship is required to spend a year in study and travel abroad. For further information address the Department of Architecture.

THE PRIZE IN ARCHITECTURE of the American Academy in Rome is open for competition among qualified undergraduates and gradu-

ates of certain American architectural schools, including that of the University of Illinois. This prize grants three years of residence and travel abroad for the study of classic and Renaissance architecture.

MILITARY CONTESTS AND PRIZES

THE UNIVERSITY BRONZE MEDALS

Bronze medals typical of the University and its Military Department are awarded by the University to the members of the infantry companies and artillery and signal detachments which shall score the greatest number of points at the annual competitive drill, held at some time between May 15 and May 31. The members of the company rifle team making the highest score at gallery target practice are also awarded medals. The medals so awarded become the permanent property of the recipients. A complete roster of the winning organizations is published in the Annual Register of the University for the following year. (See Part V.)

THE UNIVERSITY GOLD MEDAL

The Board of Trustees provides annually a gold medal which is to be awarded, at the annual competitive drill held near the close of the year, to the best drilled student, whose property the medal becomes. Each student must have matriculated in the University and must have completed one semester's work in Military 1 with a grade of not less than 90, and three semesters' work in Military 2 with a grade of not less than 95; and he must have an average standing of not less than 85 per cent in all of his other studies for the preceding semester, which standing shall be determined by the Registrar. The name of the winner is published in the Annual Register of the University for the following year. The reward is made for excellence in the same details as in the Hazelton contest.

THE HAZELTON PRIZE MEDAL

Captain W. C. Hazelton provided in 1890 a medal, which is awarded, at a competitive drill held at some time between May 15 and May 31, to the best drilled student. Each competitor must have been in attendance at the University at least sixteen weeks of the current college year; must have had less than five unexcused absences from drill; and must present himself for competition in full uniform.

The award is made for excellence in:

1. Erectness of carriage, military appearance, and neatness

- 2. Execution of the school of the soldier, without arms
- 3. Manual of arms, with and without numbers

The name of the successful competitor is published in the Annual Register of the University for the following year. He is given a certificate setting forth the facts, and may wear the medal until the fifteenth day of the May following, when he must return it for the next competition.

ASSOCIATIONS, SOCIETIES, AND CLUBS

GENERAL ORGANIZATIONS

University of Illinois Union

The University of Illinois Union is an association of the men of the University, having for its general object the promotion of college spirit and good fellowship, and as a special end the erection and maintenance of a club house open to all university men. All male students are eligible to active membership in the Union; alumni and members of the faculty may become associate members. The Union elects annually a Student Council, consisting of eight seniors and seven juniors, which takes charge of certain student activities.

THE WOMAN'S LEAGUE

The Woman's League was organized to further the spirit of unity among the women of the University and to be a medium for the maintenance of high social standards. The administrative power is vested in an Advisory Board and an Executive Committee composed of representatives from the various women's organizations. Every woman in the University is, by virtue of her registration, a member of the League. The League manages a loan fund, supports a room in the Burnham Hospital, and provides the magazines for the Woman's Building.

HOSPITAL ORGANIZATION

The Hospital Association is an organization of students to provide a fund for hospital care in case of sickness. The members of the Association pay a fee of one dollar each semester, and the fund thus raised is used to pay the hospital expenses of members who may need such care. The fund is under the control of a committee of the Council of Administration. During the past ten years the Association has rendered valuable aid to a considerable number of members. Students are advised to join the Association.

LITERARY SOCIETIES

The ADELPHIC, IONIAN, and PHILOMATHEAN societies for men, and the ALETHENAI, ATHENIAN, and ILLIOLA societies for women, meet weekly, on Fridays, throughout term time.

THE CHRISTIAN ASSOCIATIONS

In 1911-1912 six hundred thirty-three men were enrolled in the Young Men's, and two hundred ninety-five women in the Young Women's Association. Each association employs a general secretary for full time. Both are affiliated with the World's Student Christian Federation.

The Association Houses furnish free for the use of all students a reading room and library, parlors, piano, magazines and papers, correspondence tables, telephones, and other conveniences. The Young Men's Christian Association building contains also lounging and game rooms, bowling alleys, and dormitories to accommodate about eighty persons.

Religious meetings for men are held on Sunday afternoons; for women on Thursday afternoons; and for both men and women on Monday evenings. There are frequent meetings for the promotion of social intercourse and good fellowship. Courses in systematic Bible study and in modern missions are offered. Within the year approximately five hundred fifty men and three hundred seventy-five women completed one or both of these courses. At the opening of the college year the associations endeavor to help new students to find desirable rooms and boarding places. Representatives of the associations meet the trains, assist students in finding satisfactory locations, and endeavor to make them feel at home. An employment bureau helps many to find work.

A copy of a Students' Hand-Book, giving information about Urbana and Champaign, the University, and the various college organizations and activities, will be sent free to prospective students.

For this Hand-Book, or for further information, address the General Secretary of either Association.

THE COSMOPOLITAN CLUB

The Cosmopolitan Club is an organization devoted to the promotion of social and intellectual intercourse among persons of different nationalities at the University. Public meetings are held in University buildings, to afford the University community information about the customs peculiar to the various countries of the world. The clubhouse on Daniel street affords a home to many foreign students and to a limited number of native students.

Ma-Wan-Da

Ma-Wan-Da is a senior society formed by the consolidation of the two former senior societies, Shield and Trident and Phenix.

HONORARY SOCIETIES

The honorary societies or fraternities named below are private intercollegiate organizations of students and graduates, having for their primary purpose the recognition and encouragement of excellence in scholarship in various departments of study. Election is in all cases made by the societies themselves in accordance with their own rules. The University assumes no responsibility for their elections.

Рні Вета Карра

Each year a certain number of the ranking students of the senior class are elected to membership in the Phi Beta Kappa Society. The number is ordinarily limited to one-fifth of the total membership of the graduating class.

The Phi Beta Kappa Prize

Gamma of Illinois chapter of Phi Beta Kappa offers annually a prize of \$25.00 to that member of Gamma Chapter who at his graduation from the College of Literature and Arts gives evidence of greatest promise as a scholar in the domain of liberal arts. The award is based on the following considerations: (a) Class room records; (b) other literary and scholarly activities in the University; (c) an essay, which may be a senior thesis or a term paper. At the discretion of the committee in charge, the award may be withheld if none of the essays appears worthy of the prize. Essays submitted in competition and all correspondence with reference to this prize should be addressed to the Secretary of the Phi Beta Kappa Society, University of Illinois.

SIGMA XI

Members of the senior class who give "promise of marked ability" in scientific investigations are eligible to membership in the Sigma Xi Society, which was founded to encourage research in pure and applied science.

OTHER HONORARY SOCIETIES

Alpha Chi Sigma (Chemical); Alpha Gamma Rho (Agricultural); Alpha Zeta (Agricultural); Delta Kappa Chi (Commercial); Delta Sigma Rho (Oratorical); Eta Kappa Nu (Electrical Engineering); Gamma Alpha (Scientific); Kappa Delta Pi (Educational); Order of the Coif (Law); Phi Alpha Delta (Law); Phi Delta Phi (Law); Phi Lambda Upsilon (Chemical); Scabbard and Blade (Military); Scarab (Architectural); Sigma Delta Chi (Journalistic; Sigma Mu Rho (Medical); Tau Beta Pi (Engineering); Triangle (Civil Engineering).

CLUBS AUXILIARY TO COURSES OF STUDY

In addition to the associations and societies of a general character described above, there are in each college a number of societies and clubs devoted to outside work of a literary, scientific, or technical nature auxiliary to the work of various departments of that college. Among these are the following:

In the College of Literature and Arts: Le Cercle Français, el Circulo Español, the Classical Club, the Commercial Club, der Deutsche Verein, the English Journal Club, the History Club, the Oratorical Association, the Pen and Brush Club, the Philological Club, the Political Science Club, the Romance Journal Club, the Scandinavian Club.

In the COLLEGE OF SCIENCE: The Botanical Club, the Ceramic Club, the Chemical Club, the University of Illinois Section of the American Chemical Society, the Geological Journal Club, the Mathematical Club, the Zoological Club.

In the College of Engineering: The Architects' Club, the Civil Engineers' Club, the Electrical Engineering Society, the Urbana Section of the American Institute of Electrical Engineers, the Mechanical Engineering Society, the Urbana Student Branch of the American Society of Mechanical Engineers, the Mining Engineering Society, Urbana Student Branch of the American Institute of Mining Engineers, the Physics Club, the Railway Club.

In the COLLEGE OF AGRICULTURE: The Agricultural Club, the Horticultural Club, the Household Science Club, the Landscape Gardeners' Club.

In the College of Law: The Fuller, John Marshall, Witenagemot, and Van Twiller Law Clubs.

In the School of Music: The University Choral and Orchestral

Society, the University Glee and Mandolin Club, the University Military Band.

In the LIBRARY SCHOOL: The Library Club.

FRATERNITIES, SOCIETIES, AND CLUBS

National Fraternities.—Acacia (Masonic); Alpha Delta Phi; Alpha Sigma Phi; Alpha Tau Omega; Beta Theta Pi; Chi Phi; Chi Psi; Delta Kappa Epsilon; Delta Tau Delta; Delta Upsilon; Kappa Sigma; Phi Delta Theta; Phi Gamma Delta; Phi Kappa; Phi Kappa Psi; Phi Kappa Sigma; Phi Sigma Kappa; Psi Upsilon; Sigma Alpha Epsilon; Sigma Chi; Sigma Nu; Sigma Pi; Tau Kappa Epsilon; Theta Delta Chi; Zeta Psi.

Sororities.—Achoth (Eastern Star); Alpha Chi Omega; Alpha Delta Phi; Alpha Omicron Pi; Alpha Xi Delta; Chi Omega; Delta Gamma; Kappa Alpha Theta; Kappa Kappa Gamma; Phi Beta; Pi Beta Phi; Sigma Kappa.

Local Clubs.—Chi Beta; Delta Omega; Ilus; Iris; Pi Omicron; Tau Lambda.

Interfraternity Organizations.—Men's Pan Hellenic Council; Girls' Pan Hellenic Association; Helmet; Yo Ma; Yoxan; Phi Delta Psi.

OTHER ORGANIZATIONS

Other students' societies include the following: Chinese Students' Club; Easterners' Club; Egyptian Club; H. H. Club; Ivrim; Kansas Club; Komenian Society; Lincoln League; Mask and Bauble (Dramatic); Motorcycle Club; Scribblers Club; Shomeez (Interfraternity Missouri Club); Treveri.

UNDERGRADUATE SCHOLAR-SHIPS

(For circulars giving more detailed information concerning these scholarships, apply to the Registrar of the University.)

COUNTY SCHOLARSHIPS

A law passed by the General Assembly of the State of Illinois at the session of 1905 provides that one scholarship may be awarded annually to each county of the State. The holder thereof must be at least sixteen years of age, and a resident of the county to which he is accredited. No student who has attended the University of Illinois is eligible to a scholarship. The holder of a scholarship is relieved of payment of the matriculation fee (\$10.00, payable once, upon entrance) and incidental fees for four years (\$24.00 a year) in any department of the University other than the professional schools. The term "professional schools," as here used, includes the College of Law, the Library School, and the School of Pharmacy.

A competitive examination, under the direction of the President of the University and upon such branches of study as the President may select, is held, upon the first Saturday in June of each year, at the county court house in each county by the County Superintendent of Schools. Questions for these examinations are furnished in advance to the County Superintendents.

The successful candidates in the examinations must then meet in full, either by certificate from an accredited high school or by passing entrance examinations at the University, the requirements for admission to the freshman class, and must register the following September.

In case the scholarship in any county is not claimed by a resident of that county, the President of the University may fill the same by assigning to that county from some other county the student found to possess the next highest qualifications.

A student holding a scholarship who shall make it appear to the satisfaction of the President of the University that he requires leave of absence for the purpose of earning funds to defray his expenses while in attendance, may, in the discretion of the President, be granted such a leave of absence, and may be allowed an extension of his scholarship for not more than two years (making not more than six years in all from the beginning of the scholarship). Such extension will not be granted unless the student has been in attendance at the University for at least one full semester, nor unless the student's average grade during the period of his attendance has been at least 80 per cent, exclusive of grades in Military Science and Physical Training.

GENERAL ASSEMBLY SCHOLARSHIPS

The same act by which the county scholarships described above were established also provides that each member of the General Assembly may nominate annually one eligible person from his district for a scholarship in the University, granting the same privileges as the county scholarships.

A member of the General Assembly who wishes to nominate a candidate for a scholarship should file the name and address of his nominee, as early in the spring as practicable and not later than June 1, with the President of the University and also with the County Superintendent of the county in which the nominee resides.

The nominee is then required, under the statute, (I) to pass the scholarship examination—the same that is given to competitors for the county scholarships on the first Saturday in June, under the County Superintendent; (2) to meet in full, either by certificate from an accredited high school or by passing entrance examination at the University, the requirements for admission to the freshman class; and (3) to register in the University the following September.

If a nominee fails to make a passing grade (70) in the scholarship examination he may not receive the scholarship. In this case notice will be sent to the member of the General Assembly who made the nomination, who is then entitled to nominate a second candidate. This second candidate is subject to all the requirements stated above; the scholarship examination will be given him at the University on the Wednesday preceding the fall registration days (in 1913, September 17).

A General Assembly scholarship may be extended under the same conditions as a county scholarship.

SCHOLARSHIPS IN CERAMICS

The University offers annually to each county in the State one

scholarship, awarded by the Trustees of the University, upon the nomination of the Illinois Clay Workers' Association, to applicants who intend to pursue either of the courses in ceramics (Ceramics, and Ceramic Engineering). These scholarships are good for four years and relieve the student from the payment of the matriculation fee (\$10.00, payable once, upon entrance) and the incidental fees (\$24.00 a year).

The candidate must be at least sixteen years of age, must be a resident of the county for which he is nominated, and must meet in full, before entering, by certificate from an accredited high school or by passing entrance examinations at the University, the requirements for admission to the freshman class.

SCHOLARSHIPS IN AGRICULTURE AND HOUSEHOLD SCIENCE

The University offers every year to each county in the State, except Cook and Lake, and to each of the first ten congressional districts, one scholarship for prospective students of Agriculture in the College of Agriculture and one for prospective students of Household Science in the College of Literature and Arts, the College of Science, or the College of Agriculture.

Appointments to scholarships in agriculture are made by the Trustees of the University upon the recommendation of the Executive Committee of the Illinois Farmers' Institute; and to scholarships in household science upon the recommendation of the County Domestic Science Associations, or, for counties and districts in which there are no domestic science associations, on the recommendation of the Illinois Farmers' Institute. Persons who have already attended the University are not eligible.

Candidates who are able to meet in full the requirements for admission to the freshman class are eligible to appointment at 16 years of age. Candidates who cannot meet these entrance requirements are eligible, in 1913-1914, to appointment as special students (in the College of Agriculture) at 20 years of age; beginning in September, 1914, and thereafter, at 21 years of age.

Acceptable candidates, residents of counties or districts for which appointments have been made, not exceeding five in number from any one county or district, may be assigned to counties or districts for which no recommendations are made. The first nominee from each county or district, if duly qualified, is awarded the scholarship

at the time of registration. Other nominees must pay the regular fees on registration. Assignments to counties and districts for which there are no nominees registered are made on October 15, at which time the nominees so assigned to counties or districts other than their own receive rebates of the full amount of the matriculation and incidental fees paid.

The scholarships are good for two years and relieve the holders from the payment of the matriculation fee (\$10.00, payable once, upon matriculation), and the incidental fees (\$24.00 a year). The term of a scholarship may be extended four years, if, before it expires, the holder satisfies in full the requirements for admission to the freshman class of the college in which he or she is enrolled.

MILITARY SCHOLARSHIPS

Students who have had three semesters of class instruction in military science and four semesters of drill practice are eligible for appointment as commissioned officers of the University Corps of Cadets. To those attaining this rank, special military scholarships, good for one year, and equal in value to the university incidental fees for the year, are open. The amount of these scholarships is paid to the holders at the close of the academic year. Appointments in the Corps of Cadets are made on the recommendation of the Commandant of Cadets, confirmed by the Council of Administration.

OTHER SCHOLARSHIPS

For scholarships in the College of Law, see page 249. For scholarships in the Summer Session, see page 225.

For fellowships and graduate scholarships, see under Graduate School, page 205.

BENEFICIARY AID

EDWARD SNYDER DEPARTMENT OF STUDENTS' AID

In 1899 Edward Snyder, Professor of the German Language and Literature, *Emeritus*, gave the University the sum of \$12,000, to be lent to worthy students to enable them to finish their courses in the University.

This fund is available for junior, senior, and graduate students who need aid to remain and complete their work. The minimum loan made is fifty dollars (\$50); the maximum loan is one hundred and fifty dollars (\$150) to a junior, and two hundred dollars (\$200) to a senior or graduate student. Notes of hand are taken for the amount of the loans, with 5 per cent interest. The maximum time limit is for juniors three years and for seniors and graduates two years from the ensuing thirtieth of June,

Loans are made only to matriculated students who have attained at least the full rank of junior, who have been in residence at the University at least one year, who are at the time students in residence at the University, and who have declared their intention to graduate.

In recommending loans, preference is given to those students who are most advanced in their university work, who have shown themselves most assiduous and successful in their studies, and have shown habitual economy in living. No distinction is made on account of sex or course of study. A loan will not be recommended for any student who is believed to have been financially or morally delinquent in any respect.

Applications for loans must be made in writing and addressed to Dean Thomas Arkle Clark, Chairman of the Loan Fund Committee.

CLASS OF 1895 LOAN FUND

A fund of \$100.00 was established by the class of 1895, to be lent to needy and deserving students. According to the conditions of the gift, the sum of fifty dollars is to be lent annually, and the benefit of the fund is open only to students who, at the time of application, are members of the freshman class. No person may

receive the benefit of the fund more than four years. The loan bears interest from the time the recipient leaves the University, and is due one-half in five years and one-half in six years after matriculation. The fund is in charge of the Loan Fund Committee of the Council of Administration. Applications should be made in writing and should be addressed to Dean Thomas Arkle Clark, Chairman of the Committee.

GRADUATE CLUB LOAN FUND

A fund of \$75 was established by the members of the Graduate Club in 1907-1908, for the benefit of graduate students. Its administration is in the hands of the Loan Fund Committee of the Council of Administration. Applications should be made in writing and should be addressed to Dean Thomas Arkle Clark, Chairman of the Committee.

WILLIAM B. M'KINLEY LOAN FUND

In September, 1912, the Hon. William B. McKinley of Champaign, Illinois, turned over to the University notes aggregating something more than \$12,000.00, this amount as it is collected to be used as a loan fund for undergraduate men. In making the donation, Mr. McKinley stipulated that loans should be made to students upon their own personal notes, and that a preference should be shown in making these loans to upperclassmen. The notes draw interest at 5 per cent and become due two years after the student's graduation. Applications for loans should be made in writing and should be addressed to Dean Thomas Arkle Clark, Chairman of the Loan Fund Committee.

HENRY STRONG SCHOLARSHIPS

Mr. Gordon Strong, of Chicago, trustee of the Henry Strong Educational Fund, has for 1912-13 offered the University five undergraduate scholarships of \$100.00 each, to be presented to self-supporting students of high scholastic attainments. Four of these scholarships have been awarded to members of the junior class, and one has been awarded to a member of the senior class.

FEES AND EXPENSES

GENERAL FEES

All University fees are payable each semester in advance.	
Colleges of Literature and Arts, Science, Engineering, Agriculture, and Library School	AND
Matriculation Fee. Each student not holding a scholarship, upon satisfying the requirements for admission to the Uni-	
versity, pays the matriculation fee of\$	10.00
Incidental Fee. All students, excepting those holding scholar- ships, pay, each semester, an incidental fee of	12.00
Tuition Fee. Students conditioned on entrance requirements, and special students, except special students holding scholarships, pay, each semester, a tuition fee of	7.50
	7.30
Laboratory Fees. Each student working in laboratories, or in the drafting or engineering classes, is required to pay a fee varying from \$1.00 to \$10.00, to cover materials and apparatus used and breakages or damages. (For a list of Laboratory Fees, see page 124.	
Listener's Fee. Persons not connected with the University who	
attend classes as listeners, or for credit, pay for each course,	
each semester	7.50
Late Registration Fee. A former student who enters after the Registration Days in either semester must pay a late regis-	
tration fee of	1.00
Change Fee. For every change of study-list made later than the tenth day of instruction in either semester, there is	
charged a fee of	1.00
Special Examination Fee. For any special examination, the	
fee is	5.00

SCHOOL OF MUSIC

College Courses

A matriculated student, enrolled in the School of Music only,	
pays each semester:	
If his home is in Illinois, the incidental fee	\$12.00
If his home is not in Illinois, full tuition fees in voice, piano,	
violin, or other stringed instrument—	
For two lessons a week	
For one lesson a week	
In harmony, counterpoint, fugue, etc	
A matriculated student, enrolled in another department of	
the University, pays each semester:	
If his home is in Illinois, only the fees of that other de-	
partment.	
If his home is not in Illinois, both the fees of that other	
department and lower tuition fees in voice, piano, violin	
or other stringed instrument—	
For two lessons a week	
For one lesson a week	
In harmony, counterpoint, fugue, etc	
A non-matriculated student, enrolled in the School of Music	
only, pays full tuition fees, as above:	
For two lessons a week	
For one lesson a week	
In harmony, counterpoint, fugue, etc	9.00
A non-matriculated student, enrolled in another department	:
of the University, pays the fees of that department and the	:
lower tuition fees, as above:	
For two lessons a week	-
For one lesson a week	-
In harmony, counterpoint, fugue, etc	9.00
Preparatory Courses	
A student enrolled in the School of Music only pays, each	1
semester, tuition fees in voice, piano, violin, or other	
stringed instrument, any band instrument, or public schoo	
method, as follows:	
For two lessons a week	\$19.50
For one lesson a week	11.00

A student enrolled in another department of the University pays the fees of that other department and lower fees in voice, piano, violin, or other stringed instrument, any band instrument, or public school method, as follows: For two lessons a week
Use of a piano for practice one hour a day, each semester\$ 3.00 Additional hours at the same rate
Special students, taking music only, may enter classes in phys-
ical training on paying, each semester
Matriculation fee, payable upon satisfying the entrance require-
ments\$10.00
Tuition fee, each semester
Students conditioned on entrance requirements pay, each
semester, an additional fee of 7.50
Students not enrolled in the College of Law pay, each semester,
for each Law course 5.00
School of Pharmacy
Matriculation fee, paid but once
Tuition fee, shorter course, each year
Tuition fee, longer course, each year 125.00
Laboratory deposit, shorter course, each year 10.00
Laboratory deposit, longer course, each year 15.00
Diploma fee 5.00
LABORATORY FEES (FOR MATERIALS) 1912-1913
(The fees given below are in each case for one semester only; where a course
runs through both semesters, the fee named is to be paid each semester.)
Architecture 6
Architecture 13
Architecture 14
Architecture 15
Architecture 31 1.00 Ceramics 1 2.00
Architecture 43 1.00 Ceramics 5 5.00 Architecture 44 1.00 Ceramics 6 5.00
Architecture 57 1.00 Ceramics 11 5.00
Architecture 68. 1.50 Ceramics 12. 2.00 Botany 1. 3.00 Ceramics 13. 4.00
Botany 2 1.50 Ceramics 14 4.00
Botany 3 3.00 Ceramics 15
Botany 4 1.50 Ceramics 16 4.00 Botany 5 7.50 Chemistry 1 8.00
Rotany 6 1.50 Chemistry 1a
Botany 7
Botany 8 6.00 Chemistry 3 8.00 Botany 9 3.00 Chemistry 3 (½ sem.) 5.00

Chemistry	4	8.001	Entomology 109	1.50
	5a		General Engineering Drawing 2	1.00
	5b		Geology 1	1.00
	5c			1.00
Chemistry	5c (3 hrs.)	8.00	Geology 1aGeology 2	1.00
	8	8.00	Geology 3	2.25
	9a			3.00
Chemistry	9b	10.00	Geology 4	2.75
Chemistry			Geology 5	2.75
Chemistry	9c		Geology 5a	
	10a	5.00	Geology 6	1.00
Chemistry	10b (½ sem.)	2.00	Geology 7	1.00
Chemistry	11 (per hr.)		Geology 8	1.00
Chemistry	13a	10.00	Geology 9	1.00
	13b		Geology 10	1.50
	15	8.00	Geology 11	1.00
Chemistry	16	3.00	Geology 12	2.25
Chemistry	21	8.00	Geology 13	2.25
Chemistry	22		Geology 14	1.00
Chemistry	27		Geology 15	1.00
	33	8.00	Geology 16	1.00
Chemistry	35		Geology 17	1.00
	61		Geology 18	1.00
	65	5.00	Geology 23	1.00
	66	5.00	Household Science 1	3.00
	68a	8.00	Household Science 4	5.00
	68b	8.00	Household Science 5	2.00
Chemistry	69	3.00	Household Science 6	3.00
Chemistry	70	3.00	Household Science 14	3.00
Chemistry	71	3.00	Mechanical Engineering 3	3.00
Chemistry	72	3.00	Mechanical Engineering 12	3.00
Chemistry	102c	5.00	Mechanical Engineering 13	3.00
Chemistry	103	10.00	Mechanical Engineering 27	3.00
Chemistry	103a		Municipal and Sanitary Eng. 2	1.00
Chemistry	106		Municipal and Sanitary Eng. 6a	1.00
	107		Physics 2b	2.00
Chemistry	108	3.00	Physics 3	2.00
	110		Physics 4	2.00
Chemistry	111 (per hr.)	2.00	Physics 6b	2.00
Civil Engi	neering 4	1.50	Physics 15	2.00
Civil Engi	neering 4a	1.50	Physics 16	2.00
Civil Engi	neering 4 neering 4a neering 5 <i>l</i>	1.50	Physics 20b	2.00
Civil Engi	neering 13	1.50	Physics 25	2.00
	neering 13a		Physics 30b	2.00
	neering 13b	.50	Physics 31	2.00
Civil Engi	neering 14	1.50	Physiology 1	3.50
	ineering 14a		Physiology 2	3.50
	neering 21		Physiology 3	3.50
	ineering 22		Physiology 4	3.50
Electrical	Engineering 16		Physiology 5	3.50
Electrical	Engineering 22	4.00	Physiology 103	3.50
Electrical	Engineering 23	5.00	Psychology 3	2.00
Electrical	Engineering 24	5.00	Psychology 4	2.00
	Engineering 27		Railway Engineering 11	2.00
	Engineering 28		Railway Engineering 63	3.00
Electrical	Engineering 29		T. and A. M. 15	2.00
	gy 1		T. and A. M. 9	2.00
	gy 2		T. and A. M. 10	1.00
	gy 3			2.50
Entomolo	gy 4			3.50
Entomolo	gy 5	. 1.50		3.00
	gy 6			3.00
	gy 7			1.00
	gy 10			2.00
	gy 11			1.50
Entomolo	gy 102			2.00
	gy 103			1.00
Entomolo	gy 108	1.50	Zoölogy 17	1.00

AVERAGE ANNUAL EXPENSES

The following are estimated average annual expenses for t	ınder-				
graduate students attending at Urbana, exclusive of books, clothing,					
railroad fare, laboratory fees, if any, and small miscellaneous needs:					
*Semester fees\$ 24.00 to \$	24.00				
Room rent for each student (two in room) 72.00 "	80.00				
Table board in boarding houses and clubs 144.00 "	162.00				
Washing 20.00 "	30.00				

In addition to the foregoing, freshmen pay a matriculation fee of \$10.00, and the men are required to buy a cadet uniform, which costs \$15.00. Freshmen engineering students will need to buy a set of drawing instruments at a cost of about \$18.00.

Other necessary expenses will need to be taken into consideration. For all the necessary expenses of the year the average student is likely to need not less than \$350.00 to \$450.00. Most students spend more than this amount.

For information in regard to scholarships which cover the matriculation and incidental fees, see page 116.

BOARD AND ROOMS

The University does not provide dormitories nor furnish board, but the numerous rooming and boarding houses near the campus are to a certain extent under the supervision of the University. The Young Men's and Young Women's Christian Associations of the University will aid new students in securing rooms and board.

Prospective women students and their parents are invited to correspond with the Dean of Women in regard to suitable places.

^{*}Students of law and music, special students, and conditioned students must make needed changes in the amount given for "semester fees."

PART II THE COLLEGES AND SCHOOLS



THE COLLEGES OF LIBERAL ARTS*

THE COLLEGE OF LITERATURE AND ARTS

For a description of the buildings used by this College, see page 54, for collections belonging to it (art, archaeology, commerce, education, and European culture), see page 63; for a summary of its courses, see page 71; for clubs and societies auxiliary to its courses of study, see page 114; for fees, see page 122.

PURPOSE

The purpose of the College of Literature and Arts is to secure for its students a liberal education, including both the humanities and the sciences. Students who complete the course receive the degree of Bachelor of Arts. This College is especially adapted to the needs of the following classes of students:

- 1. Those who wish to pursue a four years' course for the purpose of general culture.
- 2. Those who take a somewhat general course in the arts and sciences as a basis for later professional or technical studies. It will ordinarily be possible for a good student to arrange his work in such a way as to secure in six years a professional or technical degree in addition to that in arts.
- 3. Students who desire to prepare themselves for teaching. Under the modified elective system a student may specialize to a considerable extent in the particular subject which he wishes to teach and may also find time for courses in education and related subjects which are of interest to teachers generally. Such students should, as a rule, continue their preparation in the Graduate School.
- 4. Students who desire to devote a considerable part of their undergraduate course to specific preparation for some particular calling other than teaching.—Such students may select courses in:
 - a. Business Administration, including general business, consular

^{*}The Board of Trustees, on July 5, 1912, approved a recommendation of the University Senate that the President of the University be authorized to effect, as soon as may be practicable, a consolidation of the present colleges of Literature and Arts and Science.

service, banking, insurance, accounting, railway administration and transportation.

- b. Journalism.
- c. Household science and administration.

Students regularly registered for these courses are subject to the general requirements of the College, but must meet also certain special requirements described below.

ADMISSION

See the general statement of the entrance requirements of the University, pages 75 ff.

SPECIAL STUDENTS

For a statement of the regulations of the University in regard to special students, see page 83.

It is the policy of this College to admit as special students only a select group of mature and serious persons who, though unable to meet the formal requirements for entrance, are substantially prepared for work of college grade.

GENERAL REQUIREMENTS FOR GRADUATION

The only degree given on graduation from the College of Literature and Arts is that of Bachelor of Arts. The following general requirements apply to all candidates for this degree:

- A. University Requirements.—Each candidate must meet the general University requirements as to residence and registration. He must also secure credit in approved courses (see pages 131-135 below) amounting to 130 hours. An hour is one class period a week for one semester, each class period presupposing two hours' preparation by the student, or the equivalent in laboratory or drawing room.
- B. Prescribed Studies.—Subjects specifically prescribed: Rhetoric 1* (6 hours); Physical Training, 1 and 1a for men, 7 and 9 for women; Military Science 1 and 2 for men.
- C. Group Requirements,—Every candidate must offer a minimum of 8 hours in each of the following groups:
 - I. English, including literature and rhetoric.
- II. Ancient and modern languages other than English, including Greek, Latin, the Germanic languages, and the Romance languages.

^{*}Those students who show by examination a proficiency in composition sufficient to qualify them for the second semester's work in Rhetoric 1 may be excused from the first semester's work. See page 81.

Only courses which require the use of a foreign language may be counted in this group, and the 8 hours offered must all be in the same language.

III. The social sciences, including history, economics, political science, and sociology,

IV. Mathematics and philosophy, including mathematics, education, philosophy, and psychology. A candidate who elects mathematics must take at least five hours of it. If a student does not elect mathematics, his elections in this group must include work in at least two of the other departments of the group. That is, if he does not take mathematics, he must take either philosophy and psychology, or philosophy and education, or education and psychology With the exception of mathematics, no subject of this group is open to freshmen.

V. The natural sciences, including astronomy, botany, chemistry, entomology, geology, physiology, physics, and zoology. Zoology 16 may not be counted toward this group requirement.

D. Major Subjects.—Each candidate must select some one subject to be designated as his major, and secure credit in that subject to the amount of 24 hours. The courses selected for the last two years should include some distinctly advanced work. The subjects which may be recognized as majors in this college are subject to additions from time to time; at present they are as follows: Classics1; economics; education; English2 (including English literature and rhetoric); French²; German⁴; Greek¹; history; household science; Latin'; mathematics; philosophy; political science; psychology: sociology.

Special requirements and suggestions for students in business courses and in household science are indicated below, on pages 135 and 143 respectively. Students holding scholarships in household science must make that subject their major, and take one of the courses outlined on pages 143 and 144 below.

E. Elective Subjects.—The remainder of the course is made up of electives chosen under the following conditions:

I. Credit is regularly given for courses properly announced in the following subjects: Art and design (the total credit in this department is limited to 20 hours); the classics; Germanic

<sup>For the definition of the major in this subject, see below page 299.
For the definition of the major in English, see below page 324.
A major in French must include 24 hours in addition to French 1.
A major in German must include 24 hours in addition to German 1 and 3.</sup>

languages; Romance languages; English; history; economics (including accounting and commercial law); political science; sociology; philosophy; psychology; education; astronomy; mathematics; physics; chemistry (not including technical courses in chemical engineering); geology; botany (except Botany 12); zoology; entomology; physiology; household science.

- 2. Not more than 40 hours in any one subject may be counted for graduation, except when the student is writing a thesis. In this case he may count, in addition to the 40 hours, the hours of the seminar course in which he does his thesis work. In the department of English a student may take 40 hours in addition to Rhetoric I.
- 3. No credit is granted in any subject unless the student pursues it for the full time required in the shortest course offered in that subject. For example, if the student elects a course which yields two hours of credit for one semester, he must stay in the class during the semester in order to get any credit at all. In order to secure any credit in a beginning course in a foreign language, a full year's work must be completed.
- 4. Seniors registered in courses open to freshmen may receive only one-half of the credit regularly assigned to such courses. For the year 1912-1913 the following courses are included in this list: Art and Design 1 and 2; Astronomy 1; Botany 11; Chemistry 1; Economics 7, 22, 26, 27; English 1, 10, 20; Entomology 1; French 1; Geology 3, 10, 14, 23; German 1, 3; Greek 1; History 1, 11; House-hold Science 2, 7; Latin 1; Library Science 12; Mathematics 2, 4; Rhetoric 1; Spanish 1; Zoology 1, 16.
- 5. A limited amount of credit toward the A.B. degree is ordinarily given for courses offered in other colleges and schools of this University as follows:

Physical Training.—Not to exceed 5 semester hours.

Military Science and Tactics.—Military Science 1 and 2.

Law.—Law I (Contracts); Law 2 (Torts); Law 3 (Real Property); Law 4 (Pleading); Law 5 (Criminal Law); Law 6 (Personal Property). The total credit is limited to 24 hours. None of these courses may be taken before the senior year. Law I may count for six hours only.

Engineering.—General Engineering Drawing 1 and 2 (Mechanical Drawing and Descriptive Geometry); Theoretical and Applied Mechanics 7 and 8 (Analytical Mechanics); Mechanical Engineering

7 or 15 (Thermodynamics); Civil Engineering 10 or 21 (Surveying); Architecture 31, 32 (Architectural Drawing); Architecture 13, 14, 15, 16, (History of Architecture); Electrical Engineering 1 and 21, or 2 and 26 (Principles).

Agriculture.—Agricultural Extension 2 (Elementary Agriculture for teachers); Agronomy 25 (Seeds), for business students only; Agronomy 9 (Soil Physics); Farm Management 1; Agronomy 22 (Plant Breeding); Animal Husbandry 7 (Principles of Animal Nutrition); Animal Husbandry 30 (Principles of Evolution as Applied to the Improvement of Domesticated Animals and Plants); Horticulture 9 (Forestry); Horticulture 10a (Landscape Gardening); Horticulture 12 (Evolution of Horticultural Plants); Horticulture 19 (General Floriculture), for household science students only. The total credit allowed in these agricultural courses will not ordinarily exceed 14 hours.

Library Science.—Library 3 (selection of Books); 7 (History of Libraries); 9 (Book Making); 12 (General Reference); 13 (Public Documents). The total credit allowed in Library Science will not ordinarily exceed 14 hours. The course in General Reference (Lib. 12) is of special value to students in the College of Literature and Arts.

Music.—Music 1, 2, 3, 4, and 5 (courses in the history and theory of music).

Courses not listed under paragraphs I to 5 above may not be counted for the degree of A.B., except by special permission of the Dean of the College.

F. Bachelors' Theses.—A bachelor's thesis is not generally required in this College. Students of high standing are, however, encouraged to write theses in connection with their major studies. Credit toward the degree is given for thesis work only as a part of the work in some course for which the student is registered. The presentation of a thesis is specifically required of all candidates for the honor degree. See below, page 145.

ARRANGEMENT OF COURSES

FIRST YEAR

Subjects Prescribed for Freshmen

The following subjects must be taken during the freshman year: Rhetoric 1,* three hours each semester; Military 2, one hour each semester, and Military 1, one hour second semester (for men);

^{*}See footnote, page 130.

Physical Training (Physical Training I and Ia for men; 7 and o -Physiology 6-for women); foreign language, 4 hours each semester.

Freshman Electives

The following subjects are open to freshmen. The total amount taken in any semester is limited to eighteen hours, and should not be less than fifteen. In making his choice, the student must include subjects in at least three of the groups indicated on pages 130, 131, The Roman numerals refer to these groups.

- English 101 (3); Rhetoric 1 (3).
- TT. French I (4) or 2 (4); German I (4) or 3 (4) or 4 (4) or 5 (4); Greek I (4) or 7 (3); Latin I (4) or 2 (4); Spanish I (4).
- III. Mathematics 2 (3) and 4 (2).
- IV. Economics 7 (3) or 26 (3); History I (4).
 - Astronomy 1 (3); Botany 2² (5), 4 (5), 11 (5); Chemistry 18 (5) or 123 (4); Entomology 1 (2); Geology 32 (5), 14 (3), 23² (5); Physics 2a⁴ and 2b⁴ (5); Zoology I* (5).

Second Semester:

- I. English 10 (3): Rhetoric 1 (3).
- II. French I (4) or 2 (4); German 3 (4) or 4 (4) or 5 (4) or 6 (4) or 7 (4); Greek I (4), 4 (4), or 6 (3); Latin 1 (4) or 2 (4); Spanish 1 (4).
- III. Mathematics 6 (5).
- IV. Economics 22 (3) or 27 (3); History I (4) or II (3).
- Astronomy 4 (5); Botany I (5), 2^2 (5); Chemistry I⁸ (5) or 12° (4) or 2 and 3 (5); Entomology 1 (2); Geology 3° (5) or 23° (5); Physics 2a' and 2b' (5); Zoology 2 (5), 18 (5), or 16 (2).

The following subjects not included in any group are also open to freshmen:

First Semester:

Art and Design I (2 or 3).

² Either semester may be taken separately, or both together; entrance botany required.

¹ The figure immediately following the subject is the number of the course (see "General Description of Courses," page 255 ff.); the figure in parenthesis indicates the number of credit hours to be secured in the course each

³ May be taken in either semester, but not in both. ⁴ Prerequisite: Mathematics 4 (Trigonometry) which may be taken at the same time.

Household Science 2 (2) or 7 (2).

Library Science 12 (2).

Second Semester:

Art and Design I (3), 2 (2), 3 (3), 10 (1), or 12 (2).

Household Science I (3).

Library Science 12 (2).

SECOND YEAR

Male students must continue Military 2 throughout the year. Students who have failed to secure credit for any of the prescribed subjects of the freshman year must make up such deficiencies at this time.

ELECTION

Aside from the subjects prescribed for the first two years, each student selects, with the advice of the Dean or other college advisers, such courses as will enable him to meet the requirements for graduation as stated above.

COURSES IN BUSINESS ADMINISTRATION

Courses in economics, accountancy, banking, commerce, railway administration, and industry are offered in combination with courses in language, law, and science, with the aim of providing a university training for business life. The combined courses are designed to give the student a knowledge of the general principles that underlie all lines of business, with special training in the work of some particular calling.

ARRANGEMENT OF COURSES

The subjects of study are so arranged as to furnish training for (1) general business; (2) banking; (3) accountancy; (4) railway traffic and accountancy; (5) railway transportation; (6) insurance; (7) the consular service.

The work of the class-room is supplemented with lectures by practical specialists, and with visits of inspection to industrial and mercantile establishments.

The outlines of the courses in General Business, Banking, Accountancy, Railway Administration, Insurance, and the Course for the Consular Service are given below.

GENERAL BUSINESS COURSE

The general business course is intended for students who wish a general knowledge of modern business organization and methods

and their relation to the public welfare, without specializing in the details of any particular business.

Every student must take 15 to 18 hours of work each semester. Students desiring mathematics, or taking courses requiring it, should elect it the first year, omitting Economic Resources (Economics 26), or Economic History of the United States (Economics 22), and science, which may then be elected the second year.

Course in General Business

FIRST YEAR

FIRST SEMESTER
Prescribed Subjects

Foreign language Rhetoric (Rhet. 1) Military (Mil. 2) Physical Training (P. T. 1, 1a) Economic Resources (Econ. 26) or English Econ. Hist. (Econ. 7) Mathematics (Math. 2 4) or Science

Prescribed Subjects

Principles of Econ. (Econ. 1)
Amer. Nat'l Gov't (Pol. Sci. 1)
Military (Mil. 2)
History of U. S. (Hist. 3) or
European History (Hist. 1)
Suggested Electives
Foreign language continued
Mathematics
Science

Second Semester

Prescribed Subjects

Foreign language
Rhetoric (Rhet. 1)
Military (Mil. 1 2)
Physical Training (P. T. 1a)
or Modern Industries (Econ. 27) or
Econ. Hist. of U. S. (Econ. 22)
Mathematics (Math. 6) or
Science
SECOND YEAR

Prescribed Subjects

Money & Banking (Econ. 3)
Business Organization (Econ. 6)
Business Writing (Rhet. 10)
Military (Mil. 2)
State and Local Gov't (Pol. Sci. 3)
History of U. S. (Hist. 3) or
European History (Hist. 1)
Suggested Electives
Foreign language continued
Mathematics
Science

THIRD YEAR

Prescribed Subjects

Accounting (Acc'y 1)
Corporation Management (Econ. 10)
Domestic Com. (Econ. 28) or
Foreign Com. (Econ. 29)
Suggested Electives

History
Public Finance (Econ. 5)
Foreign language continued
Accounting (Acc'y 3)
Railway Transportation (Econ. 41)
State Administration (Pol. Sci. 13)
Psychology (Psych. 1)
Municipal Gov't (Pol. Sci. 4)

FOURTH YEAR

Prescribed Subjects
Seminar (Econ. 18)
Labor Problems (Econ. 12)
Commercial Law (Econ. 25)
Suggested Electives
Political Ethics (Phil. 9)
Constitutional Law (Pol. Sci. 5)
(See also third year electives)

, Accounting (Acc'y 1)
Organization of Foreign Com. (Econ. 31) or
Tariff and Customs Regulations
(Econ. 30)
Suggested Electives

Prescribed Subjects

History Indust. Consolid. (Econ. 11) Foreign language continued Adv. Accounting (Ace'y 4) Railway Rates (Econ. 42) Psychology (Psych. 2) Logic (Phil. 1b)

Prescribed Subjects
Seminar (Econ. 18)
Com. Law (Econ. 25)
Econ. Development of Europe
(Econ. 13)

Suggested Electives
Social Reform (Econ. 21)
Finan. Hist. of U. S. (Econ. 4)
(See also third year electives)

COURSE IN BANKING

The work of the first and second years in banking is the same as in the course in general business, but students must take advanced algebra (Math. 2), which is a prerequisite for the mathematics of investment (Math. 23a).

Course in Banking

THIRD YEAR

FIRST SEMESTER Prescribed Subjects Accounting (Acc'y 1)
Corporation Management (Econ. 10)
Public Finance (Econ. 5) Suggested Electives

Indust. Accounting (Acc'y 3) Domestic Com. (Econ. 28) Logic (Phil. 1a) History

Prescribed Subjects Accounting (Acc'y 1) Math. of Investment (Math. 23a) Econ. Development of Eur

SECOND SEMESTER

Europe (Econ. 13)
Suggested Electives Tariff and Customs Regulations

(Econ. 30) Indust. Consolid. (Econ. 11) History

FOURTH YEAR

Prescribed Subjects Prescribed Subjects

Practical Banking (Econ. 9) Foreign Com. (Econ. 29) Commercial Law (Econ. 25) Seminar (Econ. 18) Suggested Electives

Labor Problems (Econ. 12) Political Ethics (Phil. 9)

The Money Market (Econ. 8) Finan. Hist. of U. S. (Econ. 4b) Commercial Law (Econ. 25) Seminar (Econ. 18) Suggested Electives Organization of Foreign Com.

(Econ. 31) Law of Taxation (Pol. Sci. 30)

COURSES IN ACCOUNTANCY

The development of the commercial, industrial, and financial interests of the country has given rise to a demand for three classes of workers in accountancy, (1) the teacher, (2) the business executive. (3) the public accountant.

In order to give students adequate preparation for these three fields, the University offers several courses of study:

- I. A four years' course in business administration with a maximum of work in accountancy, economics, history, political science, statistics, language, and other subjects.
- 2. Work in accountancy open to election by students in business administration as part of the general training necessary to a successful business executive.
- 3. A two years' special course in preparation for the examinations required by law for securing a certificate as certified public accountant.

According to this law, passed in 1903, establishing accountancy upon a professional basis, candidates are required to pass examinations in commercial law as affecting accountancy, the theory of accounts, practical accounting, and auditing.

Four-Year Course in Accountancy

FIRST YEAR

FIRST SEMESTER
Prescribed Subjects

Foreign language Rhetoric (Rhet. 1) Military (Mil. 2) Physical Training (P. T. 1, 1a) Algebra and Trig. (Math. 2, 4) English Econ. Hist. (Econ. 7) or Economic Resources (Econ. 26) Second Semester
Prescribed Subjects

Foreign language Rhetoric (Rhet. 1) Military (Mil. 1, 2) Physical Training (P. T. 1a) Analytical Geom. (Math. 6) Modern Industries (Econ. 27) or Econ. Hist. of U. S. (Econ. 22)

SECOND YEAR

Prescribed Subjects

Principles of Econ. (Econ. 1) Prin. of Accountancy (Acc'y 1) Military (Mil. 2) Science

Suggested Electives
Foreign language continued
Calculus (Math. 8a)
European History (Hist. 1)
History of U. S. (Hist. 3)
Amer. Nat'l Gov't (Pol. Sci. 1)

Prescribed Subjects
Money and Banking (Econ. 3)
Business Organization (Econ. 6)
Business Writing (Rhet. 10)
Prin. of Accountancy (Acc'y 1)
Military (Mil. 2)
Science

Suggested Electives
Foreign language continued
European History (Hist. 1)
History of U. S. (Hist. 3)
State and Local Gov't (Pol. Sci. 3)

THIRD YEAR

Prescribed Subjects
Indust. Accounting (Acc'y 3)
Corporation Management (Econ. 10)
Public Finance (Econ. 5)
Municipal Gov't (Pol. Sci. 4)

Municipal Gov't (Pol. Sci. 4)

Suggested Electives

Foreign language continued

Domestic Commerce (Econ. 28)

Logic (Phil. 1a)

Railway Transportation (Econ. 41)

Prescribed Subjects
Adv. Accounting (Acc'y 4)
Indust. Consolid. (Econ. 11)
Mathematics of Investment (Math. 23a)

Suggested Electives
Foreign language continued
Tariff and Customs Regulations
(Econ. 30)
Railway Rates (Econ. 42)

FOURTH YEAR

Prescribed Subjects
Advanced Accounting (Acc'y 7)
Commercial Law (Econ. 25)
Seminar (Econ. 18)
Political Ethics (Phil. 9)
Suggested Electives
Practical Banking (Econ. 9)
Labor Problems (Econ. 12)

Prescribed Subjects
Auditing (Acc'y 5)
Commercial Law (Econ. 25)
Seminar (Econ. 18)
Suggested Electives
Money Market (Econ. 8)
Finan. Hist. of U. S. (Econ. 4b)

TWO-YEAR COURSE IN ACCOUNTANCY

This course is open only to students in accountancy who are preparing for the C. P. A. examinations, who are at least 20 years of age and able to matriculate in the University, and who can furnish satisfactory evidence of at least one year's experience in the office of a practicing public accountant. The course must be taken as outlined. No variation from it is allowed.

Two-Year Course in Accountancy

FIRST YEAR

FIRST SEMESTER Prescribed Subjects
Prin. of Accountancy (Acc'y 1)
Indust. Accounting (Acc'y 3) Rhetoric (Rhet. 1)
Principles of Econ. (Econ. 1)
Algebra (Math. 2)
Military (Mil. 2)
Physical Training (P. T. 1, 1a)

Prescribed Subjects
Adv. Accounting (Acc'y 7)

Corporation Management (Econ. 10)
Commercial Law (Econ. 25)
Practical Banking (Econ. 9) or
Economics of Ins. (Econ. 33)
Military (Mil. 2)

SECOND SEMESTER Prescribed Subjects
Prin. of Accountancy (Acc'y 1)
Adv. Accountancy (Acc'y 4)
Rhetoric (Rhet. 1)
Money and Banking (Econ. 3)
Mathematics of Investment (Math. 23a)
Military (Mil. 1, 2)
Physical Training (P. T. 1a)

SECOND YEAR

Prescribed Subjects Auditing (Acc'y 5)
Railway Accounting (Acc'y 6)
Business Writing (Rhet. 10)
Commercial Law (Econ. 25)
Property Insurance (Econ. 34)
Military (Mil. 2)

COURSES IN RAILWAY ADMINISTRATION

There are two courses offered under the head of railway administration, one emphasizing those subjects which are of most value to the student interested in the accounting and traffic aspects of railway work, the other laying stress upon the transportation service, properly so called, and intended to prepare men directly for the transportation departments of railways.

Course in Railway Traffic and Accounting

FIRST YEAR

FIRST SEMESTER
Prescribed Subjects Foreign language Rhetoric (Rhet. 1)
Military (Mil. 2)
Physical Training (P. T. 1, 1a)
Algebra and Trig. (Math. 2, 4)
Economic Resources (Econ. 26) or
Engl. Econ. Hist. (Econ. 7)

Prescribed Subjects
Principles of Econ. (Econ. 1)
Calculus (Math. 8a)
Physics (Phys. 1 and 3)
Military (Mil. 2)

Second Semester Prescribed Subjects Foreign language Foreign language
Rhetoric (Rhet. 1)
Military (Mil. 1, 2)
Physical Training (P. T. 1a)
Analytical Geometry (Math. 6)
Econ. Hist. of U. S. (Econ. 22) or
Modern Industries (Econ. 27)

SECOND YEAR Prescribed Subjects Money and Banking (Econ. 3) Business Organization (Econ. 6) Business Writing (Rhet. 10) Physics (Phys. 1 and 3) Military (Mil. 2)

THIRD YEAR

Prescribed Subjects
Accounting (Acc'y 1)
Ind. Accounting (Acc'y 3) Corporation Management (Econ. 10) Railway Transportation (Econ. 41)

Prescribed Subjects
Accounting (Acc'y 1)
Adv. Accounting (Acc'y 4)
Indust. Consolid. (Econ. 11)
Railway Rates (Econ. 42)
Mathematics of Investment (Math.

FOURTH YEAR

Prescribed Subjects
Accounting (Acc'y 6, 7)
Traffic Admin. (Econ. 43) or Railway Operation (Econ. 45) Sem. in R'y Admin. (Econ. 18) Commercial Law (Econ. 25) Prescribed Subjects
Accounting (Acc'y 5)
Traffic Admin. (Econ. 43) or
Railway Operation (Econ. 45)
Sem. in R'y Admin. (Econ. 18)
Commercial Law (Econ. 25)

Course in Railway Transportation

In addition to the prescribed subjects in this course other subjects may be elected where opportunity offers, but six hours of such elections must be from history, political science, more advanced language, or ethics.

Course in Railway Transportation

FIRST YEAR

FIRST SEMESTER
Prescribed Subjects
Foreign language
Rhetoric (Rhet. 1)
Military (Mil. 2)
Physical Training (P. T. 1, 1a)
Gen. Engin. Drawing (G. E. D. 1)
Algebra and Trig. (Math. 2, 4)
SECOND SEMESTER
Prescribed Subjects
Foreign language
Rhetoric (Rhet. 1)
Military (Mil. 1, 2)
Physical Training (P. T. 1a)
*Descriptive Geom. (G. E. D. 2)
Anal. Geom. (Math. 6)
SECOND YEAR

Prescribed Subjects
Principles of Econ. (Econ. 1)
Calculus (Math. 7)
Physics (Phys. 1, 3)
Military (Mil. 2)

Prescribed Subjects
Money and Banking (Econ. 3)
Calculus (Math. 9)
Physics (Phys. 1, 3)
Military (Mil. 2)
Anal. Mech. (T. and A. M. 7)
Engines and Boilers (M. E. 11)

THIRD YEAR

Prescribed Subjects
Corporation Management (Econ. 10)
Railway Transportation (Econ. 41)
Traffic Admin. (Econ. 43)
Anal. Mech. and Resist. of Materials
(T. and A. M. 8, 9)

Prescribed Subjects
Railway Operation (Econ. 45)
Sem. in R'y Admin. (Econ. 18)
Accounting (Acc'y 1)
Labor Problems (Econ. 12)
Locomotives (R'y M. E. 1)
Engin. Materials (T. and A. M. 6)

Prescribed Subjects
Railway Operation (Econ. 45)
Sem. in R'y Admin. (Econ. 18)
Accounting (Acc'y 1)
R'y Tests (R'y M. E. 11)

COURSE IN INSURANCE

The work of the first and second years in insurance is the same as in the course in railway traffic and accounting, except that Econ. 7 (Econ. Hist. of England) may take the place of Economic Resources (Econ. 26), and that any other science may be taken instead of physics. (See page 139).

Course in Insurance

THIRD YEAR

FIRST SEMESTER
Prescribed Subjects
Accounting (Acc'y 1)
Corporation Management (Econ. 10)
American Nat'l Gov't (Pol. Sci. 1)
Suggested Electives
Foreign language continued
History of U. S. (Hist. 3)
European History (Hist. 1)
Public Finance (Econ. 5)

SECOND SEMESTER
Prescribed Subjects
Accounting (Acc'y 1)
Mathematics of Investment
(Math. 23a)
State and Local Gov't (Pol. Sci. 3)
Suggested Electives
Foreign language continued
History of U. S. (Hist. 3)
European History (Hist. 1)

^{*}This subject is to be taken for three hours' credit only.

FOURTH YEAR

Prescribed Subjects Econ. of Insurance (Econ. 33)

Commercial Law (Econ. 25) Commercial Law (Econ. 28)
Sem. in Insur. (Econ. 18)
Actuarial Theory (Math. 31)
State Administration (Pol. Sci. 13)
Suggested Electives
Political Ethics (Phil. 9)
Labor Problems (Econ. 12)

Practical Banking (Econ. 9)

Prescribed Subjects

Property Insurance (Econ. 34)
Commercial Law (Econ. 25)
Sem. in Insur. (Econ. 18)
Suggested Electives
Finan. Hist. of U. S. (Econ. 4b)
Econ. Development of Europe
(Foor. 13)

(Econ. 13) Indus. Consolid. (Econ. 11) Money Market (Econ. 8)

COURSE FOR THE CONSULAR SERVICE

This course is intended for students who plan to take the civil service examinations for consular and diplomatic positions. The electives chosen depend on the country in which the student aims to serve.

Course for the Consular Service

FIRST YEAR

FIRST SEMESTER

Prescribed Subjects Foreign language
Rhetoric (Rhet. 1)
Military Training (Mil. 2)
Physical Training (P. T. 1, 1a)
Economic Resources (Econ. 26) or
English Econ. Hist. (Econ. 7) European History (Hist. 1)

Prescribed Subjects

SECOND SEMESTER

Foreign language
Rhetoric (Rhet. 1)
Military Training (Mil. 1, 2)
Physical Training (P. T. 1a)
Modern Industries (Econ. 27) or
Econ. Hist. of U. S. (Econ. 22)
European History (Hist. 1)

SECOND YEAR

Prescribed Subjects Principles of Econ. (Econ. 1) Foreign language continued Amer. Nat'l Gov't (Pol. Sci. 1) Science Military (Mil. 2)

Prescribed Subjects Money and Banking (Econ. 3) Business Organization (Econ. 6) Foreign language continued
State and Local Gov't (Pol. Sci. 3)
Business Writing (Rhet. 10) Science Military (Mil. 2)

THIRD YEAR

Prescribed Subjects Domestic Com. (Econ. 28) or Foreign Com. (Econ. 29) Foreign language continued History of U. S. (Hist. 3) International Law (Pol. Sci. 6)

Prescribed Subjects Organization of For. Com. (Econ. 31) or Tariff and Customs Regulations (Econ. 30) Foreign language continued History of U. S. (Hist. 3) Amer. Diplomacy (Pol. Sci. 7) or World Politics (Pol. Sci. 18)

FOURTH YEAR

Prescribed Subjects Foreign language continued Public Finance (Econ. 5) Political Ethics (Phil. 9) Seminar (Econ. 18) Commercial Law (Econ. 25) British Gov't (Pol. Sci. 21)

Suggested Electives
Corp. Management (Econ. 10)
Revolutionary and Napoleonic Era (Hist. 7)

Prescribed Subjects

Foreign language continued Econ. Development of Europe (Econ. 13)
Commercial Law (Econ. 25)
Continental European Governments
(Pol. Sci. 22)

(Fol. Sci. 22)
Seminar (Econ. 18)
Suggested Electives
History of Latin America and the
Philippines (Hist. 27)
Europe in 19th Cent. (Hist. 20)

COURSES IN IOURNALISM

Students who are preparing to enter the advertising or managerial sides of journalistic work should elect economics as a major and enroll in one of the business courses. The work they will take will then be selected under the advice of the proper instructors, according to the needs of the individual student and within the requirements for the College for graduation.

Students who are preparing for journalistic work on the reportorial, literary, or editorial sides should take their major work in English. They will make up their study schedules from the following suggested course. With the consent of the adviser, other courses may, for purposes of specialization, be substituted for suggested courses. A program which satisfies the group and major requirements may, for instance, be so modified in the third and fourth years as to lay emphasis on any one of the social sciences.

Suggested Course in Journalism

(Major in English)

FIRST YEAR

Prescribed Subjects	Prescribed Subjects
Rhetoric 1	Rhetoric 1
SECOND	
Prescribed Subject	Prescribed Subject
Military 1	Military 1
Suggested Electives News Writing (Rhetoric 12) 2 English 1 or science 3 or 4 or 5 History of U. S. (His. 3) 3 Foreign language continued 4 Am. Nat'l. Govt. (Pol. Sc. 1) or Principles of Economics (Econ. 1) 5 Am. Literature (English 16) 2	Suggested Electives News Writing (Rhetoric 12) 2
THIRD YEAR	
Intermediate English	Intermediate English

FOURTH YEAR

Rhetoric 15 or English 14	Rhetoric 15 or English 14
Law (Pol. Sc. 5)	or 28)2 or 3
History of U. S. (His. 21)	Social & Indust. Legis. (Pol. Sc.
Public Finance, or Corporation	11) 3
Management and Finance, or La-	Industrial Consolidations, or Eco-
bor Problems (Econ. 5 or 10 or	nomic History of Europe or So-
12) 3	cialism and Social Reform
	(Econ 11 or 13 or 21) 3

HOUSEHOLD SCIENCE

Students who hold scholarships in household science must make this subject their major, and take each semester at least four hours in household science or in subjects required for admission to the household science courses. The suggested course in household administration is described below. Household science students who do not take that course must meet the following requirements:

First Semester-Physical Training 7, Physiology 6, Rhetoric I, foreign language, Chemistry I, Household Science 2.

Second Semester-Physical Training 7, Rhetoric 1, foreign language, Household Science 1, Chemistry 2 and 3.

They must then elect in regular course and finish by the end of the junior year, Botany 5, Chemistry 13a, 9 and 9c, and an additional five hours in botany or zoology. In order to graduate, household science students must also secure credit for Art and Design I, Art and Design 12, Art and Design 19, and Economics 1.

Students in household science must also satisfy the requirements for graduation in the College of Literature and Arts, in so far as these are not covered by the courses above mentioned.

Suggested Course in Household Administration

FIRST YEAR

SECOND SEMESTER

Household Art and Clothing

(Household Science 12)

FIRST SEMESTER

of the United States (Hist. 1 or 3) General Floriculture (Hort. 19)

Rhetoric and Themes (Rhet. 1)
Free Hand Drawing (Art & D. 1)
Home Architecture & Sanitation
(Household Science 2) Rhetoric & Themes (Rhet. 1) Applied Design (Art & Design 12) Foreign language Physical Training Foreign language Physical Training Introductory Zoölogy (Zoöl. 1) Hygiene (Physiology 6)
English (English 10) or
Econ. Hist. of the U. S. (Econ. 22) SECOND YEAR I EAR
Inorganic Chemistry (Chem. 2)
Qualitative Analysis (Chem. 3)
Economic History of the Ur
States (Econ. 22)
History of the United States Art and Design 19 Textiles (H. Sci. 7) Economic Chemistry (Chem. 1)
Economic Resources (Econ. 26)
Suggested Electives United Foreign language Introd. European Hist. or History (Hist. 3)

THIRD YEAR

Economic Uses of Food
(Household Science 6)
Elementary Psychology (Psych. 1)
Physiology 4 (Minor course)
Principles of Economics (Econ. 1)

Elementary Psychology (Psych. 2)
Elementary Psychology (Psych. 2)
Bacteriology (Bot. 5)
History of Fine Art (Art & D. 19)

FOURTH YEAR
Home Management (Household Science 10)
History of Home Economics (Household Science 13)
Accountancy 1

FOURTH YEAR
Economics of the Family (Household Science 15)
Science 15)
Ethics (Philos. 7)
Social Aspects of Education
(Sociol. 26)

Accountancy 1 Elementary Law (Pol. Sci. 17) General Sociology (Soc. 1) Principles of Education (Edu. 1)

COURSE PRELIMINARY TO LAW

It is recognized by the best authorities on legal education that professional studies in law should be preceded by a thorough course in the humanities and the sciences. As a foundation for the study and practice of law, the following subjects offered by this College are of special importance: English, with special reference to composition and public speaking; Latin and French; logic; constitutional and political history; political science; economics; sociology.

By the proper selection of his studies it is possible for a prospective law student to take both the degree in arts and the degree in law in six years. The following first year courses in the College of Law, not exceeding a total of 24 hours, may be counted for the degree of bachelor of arts: Law I (contracts); Law 2 (torts); Law 3 (real property); Law 4 (pleading); Law 5 (criminal law); Law 6 (personal property). Law I may count for six hours only. Students are not permitted to take this work in law until their senior year. If the student is also a candidate for the degree of LL.B., or J.D., he should in his fourth year register in the College of Law, pay the usual fee of that College, and file a copy of his study-list with the adviser for seniors in this College. A fee of five dollars is charged for every law subject taken by students who do not pay the regular law school fee.

Courses in law do not in themselves constitute a major in this College, but six hours of law are accepted as part of the requirements for majors in the following departments: economics, history, political science, and sociology.

When taken by students registered in the College of Law, credit to a total of six hours toward the degree of LL.B. is accepted for courses offered by the College of Literature and Arts in jurispruHonors 145

dence, international law, administrative law, and the law of taxation.

The degree of Bachelor of Arts is conferred at the close of the fourth year of the combined course providing that all the requirements for the degree are met at that time.

Candidates for the degree of Doctor of Law (J.D.) must take four hours in history, economics, political science, or sociology, in the fourth year of their course.

Students admitted to this University from other institutions may count the above courses in law for the degree of A.B. only on condition of completing at least 30 hours' work in residence in subjects offered by the College of Literature and Arts.

COMBINED ARTS AND ENGINEERING COURSE

A graduate of the College of Literature and Arts, whose mathematical training includes the work of the calculus, who has had the usual college course in physics, and sufficient training in the principles of mechanics to enable him to begin the mechanics of the junior year, may receive the degree of Bachelor of Science in the departments of the College of Engineering upon the completion of sixty-eight credit hours in such lines (including thesis) as may be directed by the faculty. This work may ordinarily be done in two academic years. Candidates for the degree in the department of architecture are not required to be prepared in calculus or mechanics, but should possess special preparation in drawing. The courses in the College of Engineering which may be counted for the degree of A.B. are listed on page 132 above.

PREPARATION OF TEACHERS

For information concerning preparation of teachers and the recommendation of the University committee on appointments see page 214.

HONORS

The Honor Degree

The faculty of the College of Literature and Arts recommends candidates for the degree of A.B. with honors in a particular subject, under the following conditions:

I. The amount of work required in the honor subject shall be that required for a major in that subject.

- 2. The candidate must also offer two minor subjects. Not less than 9 hours will be accepted in either subject, and the aggregate for both subjects must be at least 24 hours.
- 3. The work done in the minor subjects must be of a distinctly superior quality; grades of at least 85 are required in all the minor subjects; especially poor or careless work in any other subject may, by vote of the faculty, cause the honor degree to be withheld.
- 4. Each candidate is required to present an acceptable thesis in his major subject; the thesis may be written in connection with some recognized course in the department.
- 5. The honor subjects at present recognized in this College are as follows: The classics (either the classics as a whole, or Greek or Latin separately), economics, education, English, German, French, history, mathematics, philosophy, political science, psychology, sociology. The specific requirements for honors in particular subjects are stated in connection with the description of courses for the several departments, pages 255ff. below.

The purpose of these honors is not to encourage premature specialization, but to give special recognition to students who have pursued with success carefully correlated courses of study, and to emphasize the importance, for scholarship in any given subject, of thorough training in other more or less related subjects. Candidates should announce their intention as early as possible in their college course and consult freely with the head of the department concerned in regard to the selection of their studies.

Preliminary Honors

The University regulations regarding preliminary honors are stated above, page 106.

Freshman Honors

At the close of each year a list of those members of the freshman class who have made an especially good record in scholarship is prepared. The names of such students are announced at an assembly of the College; notice is also sent in each case to the parent or guardian, and to the principal of the high school of which the student is a graduate.

Honorary Societies

For information concerning the honorary societies represented in the University, see page 113.

THE COLLEGE OF SCIENCE

For a description of the buildings used by this College, see page 54; for collections belonging to it (botany, entomology, geology, and zoology), see page 64; for a summary of its courses, see page 72; for clubs and societies auxiliary to its courses of study, see page 114; for honors, see page 106; for honorary societies, see page 113; for fees, see page 122.

PURPOSES

The College of Science offers two distinct groups of courses. The purpose of the first group is to furnish a well balanced general education as a preparation for distinctly professional studies, for teaching, or for business life. These courses require major work in at least one branch of science¹, but also require work in some foreign language and in other literary or philosophical subjects. The courses of this group lead to the degree of Bachelor of Arts.

The courses of the second group are more technical in character and are designed to prepare students for a professional career of a specific character. In these courses but little opportunity for elective studies can be offered. Upon completion of the course the degree of Bachelor of Science, usually with a special designation, is given.

A portion of the work of a student registering in this College may be selected, in accordance with the provisions described in the following pages, from the offerings of the other colleges or schools of the University.

ADMISSION

See the general statement of the entrance requirements of the University, page 75.

¹ For list of Majors, see page 150.

SPECIAL STUDENTS

See the statement of the general regulations of the University in regard to special students, page 83.

COURSES LEADING TO THE A.B. DEGREE

The courses of study leading ordinarily to the degree of Bachelor of Arts are the General Course in Science and the Course Preparatory to Medicine. Attention is called also to the combined courses in Science and Engineering. A similar combination can also be made in Science and Agriculture.

GENERAL COURSE IN SCIENCE

To graduate from the General Course in Science the following 'requirements must be fulfilled:

- 1. The student must complete the work indicated in the prescribed list, except that physics and chemistry will not be required of students who have had one-year courses in these subjects in an accredited high school or acceptable equivalent courses elsewhere.
- 2. There must be obtained from the five groups of electives the number of hours' credit mentioned under each group. The physics and chemistry of the prescribed list may be applied on the requirements of Groups 1 and 2. Students who have had three years of work in foreign language in an accredited high school, or an equivalent course elsewhere, will be relieved from the requirement of Group 4. Those who have had one year or two years of high school language may be relieved from 4 hours or 8 hours respectively of the requirement of Group 4. No credit is given for a part of the first university year of any language.
- 3. A total credit of at least 20 hours must be secured in some one of the divisions of the major elective list. Not more than 40 hours' work (exclusive of thesis) in any one of these divisions may be applied toward graduation. In arranging the subjects to be counted toward the major requirement the student is advised to consult with the head of the department in which the major is taken.
- 4. The student must secure enough additional credits from the general elective list to complete the graduation requirement of 130 hours.

GENERAL CLASSIFICATION OF SUBJECTS

PRESCRIBED LIST

Chemistry 1

Physics 2a, 2b (or 1, 3)

Rhetoric 1*

Military Science 1, 2

Physical Training-

Men, 1, 3

Women, 7, 9

GROUP ELECTIVES

Group I. 8 hours required

Mathematics

Physics

Astronomy

Logic (Philosophy 1)

Mineralogy (Geology 5)

Group 2. 8 hours required

Chemistry

Geology

Household science

Bacteriology (Botany 5)

Group 3. 8 hours required

Botany

Zoology

Physiology

Psychology

Entomology

Group 4. 16 hours required

Foreign language

Group 5. 8 hours required

English literature

History

Political science

Economics

Philosophy

Education

^{*}Those students who show by examination a proficiency in composition sufficient to qualify them for the second semester's work in Rhetoric 1 may be excused from the first semester's work. See page 81.

MAJOR ELECTIVES

Astronomy
Botany
Chemistry
Education
Entomology or zoology
Geology (including mineralogy and physical geography)
Household science
Library science
Mathematics
Physics
Physiology
Psychology
Zoology or entomology

GENERAL ELECTIVES

The subjects offered as general electives include not only those branches given by the departments of this College, but also those in history, economics, languages, literature, and philosophy, given in the College of Literature and Arts; those in agronomy, animal husbandry, and horticulture, given in the College of Agriculture; and certain courses given in the College of Engineering and in the Library School afford abundant material from which elections may be made.

Approximately one-third of the work to be counted toward graduation may be selected, subject to the approval of the Dean, from the subjects given in other colleges of the University, if the student so desires.

THESIS

A thesis course may be taken in any department (subject to the approval of the head thereof) in which the student has done 20 hours of major work preceding his senior year. Students desiring to take a thesis course in geology or mineralogy may add to their credits in those subjects the credits received for chemistry; and students in physiology may add to their credits in that subject those in zoology and bacteriology. Only students graduating with a thesis will, as a rule, be selected for fellowships, scholarships, and other similar university honors. Candidates for special honors are required by the general regulations of the University to write a thesis.

PROSPECTUS OF COURSE IN SCIENCE

FIRST YEAR

Fifteen to eighteen hours a week, including military and physical training, must be chosen each semester.

Military science and tactics are required of all male students. Drill extends through the freshman and sophomore years, and tactics through the second semester of the freshman year.

Physical training is required of all freshmen, men and women, two hours for men and three hours for women.

The following subjects are open to freshmen:

FIRST SEMESTER

Prescribed Subjects: Chemistry 1: Rhetoric 1: Military 2: Physical Training 1 and 1a for men; 7 and 9 (Physiology 6), for women.

Group 1: Astronomy 1: Mathematics 2, 4,

Group 2: Chemistry 1a, Chemistry 3 (for those who have had Chemistry I or its equivalent); Geology I, 3, 52, I4, 23; Household Science 2.

Group 3: Botany 2, 4, 11; Entomology 1; Physiology 4; Zoology I.

Group 4: French I; German I, 4 (for those offering two units for entrance); Greek I, 3, 5, 7; Latin I (for those offering three units for entrance); Spanish 1.

Group 5: Economics 7, 26; History 1.

General Electives: See statement on page 150.

SECOND SEMESTER

Prescribed Subjects: Rhetoric 1; Military 1, 2; Physical Training I and Ia, for men; 7 and 9 (Physiology 6), for women.

Group 1: Astronomy 4: Mathematics 3a, 6.

Group 2: Chemistry I, 1a, 2, 3, and 13a (after Chemistry 2 and 3); Geology 1a, 63, 8, 10, 12; Household Science 1.

Group 3: Botany I, 16; Entomology I, 3; Zoology 2, I, 16.

Group 4: French 1; German 3, 5, 6 (after German 4); Greek I, 4, 6, 8; Latin I: Spanish I.

Group 5: Economics 22, 26; History I, II.

General Electives: See statement on page 150.

¹ See page 148, requirement 1. ² Prerequisite: Chemistry. ⁸ Prerequisite: Geology 5.

LIBRARY SCIENCE

Library science has been added to the list of major electives to meet the needs of those who are preparing for positions in scientific libraries, but are unable to complete the course as outlined in the Library School.

PREPARATION OF SCIENCE TEACHERS

To graduate with a preparation for the teaching of science in the secondary schools, the student must meet the requirements of the general science course, choosing his major in that group containing the subjects which he wishes especially to teach, and adding Education 1, 3, and 7, Psychology 1, Philosophy 1, and at least four hours more in education or psychology.

As to the amount and the character of the work which should be taken in the major subject and those allied to it, the student should consult with the head of the department in which the principal work is taken. See also the circular of the School of Education.

COURSE IN SCIENCE AND ENGINEERING

A graduate of the College of Science whose mathematical training includes the work of the calculus, who has had the usual college course in physics, and sufficient training in the principles of mechanics to enable him to begin the mechanics of the junior year, may receive the degree of Bachelor of Science in Engineering upon the completion of 68 semester hours of work in engineering (including thesis) under the direction of the faculty of the College of Engineering. This work may ordinarily be done in two academic years. Candidates for the degree in the department of architecture are not required to be prepared in calculus or mechanics, but should have special preparation in drawing.

HOUSEHOLD SCIENCE

The courses of instruction given in this department are planned to meet the needs of three classes of students: (a) those students who specialize in other lines of work, but desire a knowledge of the general principles and facts of household science; (b) those students who wish to make a specialty of household science for the purpose of teaching the subject in secondary schools and colleges; (c) those students who wish some knowledge of the principles underlying the work of dietitians.

Household science may be taken as a major in the College of Science by meeting the requirements concerning majors as prescribed in the General Course in Science. Holders of scholarships in household science may take the subject as a major or may take the following suggested course, arranged especially to meet the needs of those preparing to teach the subject.

Students who have had three years of work in foreign language in an accredited high school, or an equivalent course elsewhere, will be relieved from the requirement of 16 hours of foreign language. Those who have had one year or two years of high school language may be relieved from 4 hours or 8 hours, respectively, of this requirement. No credit is given for a part of the first university year of any language.

The student must secure enough additional credits from the general elective list as described in the General Course in Science to complete the graduation requirement of 130 hours.

Suggested Course for Teachers of Household Science

FIRST Y	ZEAR
FIRST SEMESTER S. H. ¹ Chemistry 1	Second Semester S. H.
17	16
17 SECOND	
17	14
	YEAR
### THIRD Physiology 4	Household Science 3
15	15
FOURTH	
Household Science 4	Household Science 11 3 Education 6 2 Electives 10
	-
	15

The following subjects are suggested as electives for the junior and senior years: Psychology 1, 2; Botany 1; foreign language.

¹ Semester hours. For definition see page 257.

COURSE PREPARATORY TO MEDICINE

The following course of three years' work, outlined for persons who are preparing for the study of medicine, includes the subjects offered in the first year of a standard course in medicine, with the exception of anatomy, together with the two years' work in arts and general science which is now required for admission to the better medical schools. It is intended to prepare students to enter upon the work of the second year of the professional course in medicine.

A student who has completed the course outlined below and who then completes a year's work in medicine in a recognized medical school, including work in human anatomy, the physiology of the special senses and of the nervous system, therapeutics, general pathology, pathological anatomy, and surgical pathology, may receive credit by transfer for this year of medical work, and thus receive the degree of Bachelor of Arts from the University of Illinois. Under this plan the student may ordinarily obtain the two degrees of Bachelor of Arts and Doctor of Medicine with six years' work, and is able to go more deeply than would otherwise be possible into the fundamental sciences upon which medical studies are based.

Course Preparatory to Medicine

FIRST	YEAR
FIRST SEMESTER	SECOND SEMESTER
S. H. ¹	S. H. ¹
General Chemistry (Chem. 1) 5	Descrip. Inorg. Chem. (Chem. 2) 2
Rhetoric and Themes (Rhet. 1) 3	Qualitative Analysis (Chem. 3) 3
Trigonometry (Math. 4)	Rhetoric 1
Zoology 1	Zoology 2
Zoology 1	M:1:4 (1 2)
Military (Mil. 2)	Military (1, 2)
Physical Training 1	Physical Training 1
Total17	Total16
SECOND	YEAR
S. H.	S. H.
German 1 or 4, or Latin ² 4	German 3 or 5 or 6 or Latin2 4
Zoology 3	Zoology 3
Zoology 3	Organic Chem. (Chem. 9, 9c)
Dhusias 2s 2h	Dhasies 20 2h
Physics 2a, 2b	Physics 2a, 2b
Military 2 1	Military 2 1
	. .
Total 17	Total17
THIRD	YEAR
S. H.	S. H.
German. 4	German 5 or 6 4
Histology (Physiology 1) 5	Physiology 210
Physiological Chem. (Chem. 15) 5	Bacteriology (Botany 5) 5
Psychology 1, 9 5	
m . 1	
Total19	Total19

¹ Semester hours. For definition see page 257. ²If Latin has not been offered for entrance.

FOURTH YEAR

Students who can afford it would do well to spend a fourth year in continuing this course. For such students no group requirements are prescribed—each is given free choice in selecting what he needs to round out his general education, or to prepare to specialize in some line of his future work; a selection from the following courses is recommended: Bacteriology; Chemistry 5b, 5c, 9a, 9b, 14, 21, 22, 31, 105, and 106; Entomology 2, 3; Physiology 5; Psychology 113; Zoology 7, 8, 13, 13a; modern languages; and studies included in Group 5 of the general course in science. Upon the completion of this fourth year, the student takes his baccalaureate degree before going to the college of medicine.

COURSES LEADING TO THE B.S. DEGREE

The following courses of instruction in this College lead ordinarily to the degree of Bachelor of Science.

COURSE IN CERAMICS

To graduate in ceramics the student must follow one of the courses outlined below. The conditions are such that little election can be allowed.

Special courses will be arranged for those who wish a limited amount of work in ceramics, but those pursuing them will not be entitled to a degree and will not be recognized as graduates.

Course in Ceramics

FIRST YEAR FIRST SEMESTER SECOND SEMESTER Chemistry 2 & 3...... 5 Chemistry 1..... Adv. Algebra (Math. 2)...... 3 Trig. (Math. 4) 2 Gen. Eng. Drawing 1 3 Rhetoric 1 3 Mil. & Phys. Tr. 1, 1a 2 Mil. & Phys. Tr. 1a..... SECOND YEAR Physics 1 & 3...... 5 Physics 1 & 3...... 4 Chemistry 5a 5 Calculus (Math. 8a) 5 Military Drill 1 Military Drill...... 1 16 17

¹ Semester hours. For definition see page 257.

THIRD	
German 4 or French 1 or 2	German 6 or French 1 or 2
15) 3	Surveying (C. E. 10)
Mining Methods (Min. 3)2	_
15	17
FOURTH	YEAR Eng. Geol. (Geol. 13)
Mineralogy (Geol. 5) 5 Glazes (Cer. 6) 5 Cements (Cer. 10) 3 Drying & Burning (Cer. 4) 4	Glass (Cer. 8)
17	16.
Course in Ceram	nic Engineering
FIRST	YEAR
First Semester S. H. ¹	SECOND SEMESTER S. H. ¹
Chemistry 1	Chemistry 2 & 3
Trig. (Math. 4)	Descript. Geom. (G. E. D. 2)
Gen. Eng. Drawing 1	Mil. & Phys. Tr
Mil. & Phys. Tr. 1, 1a 2	_
18	18
SECOND	YEAR Physics 1 & 3 4
Physics 1 & 3	Chemistry 5b 4
Calculus (Math. 7)	Calculus (Math 9)
mintary Difficulture 1	Ceramic Materials (Cer. 1)
16	18.
THIRD	YEAR
German 4 or French 1 or 2 4 Winning & Preparation (Cer. 2) 3	German 6 or French 1 or 2
Indust. Calc. (Cer. 3)	Designing & Shaping (Cer. 12) 3
Analyt. Mechanics (T. & A. M. 8) 2½ Resist. of Materials (T. & A. M. 9 3½	Steam Engines & Boilers (M. E. 11) 3 Surveying (C. E. 10)
	_
16	I VEAD
Glazes (Cer. 6)	Engineering Geol. (Geol. 13) 5
Cements (Cer. 10)	Ceramic Constr. (Cer. 9) 5 Glass (Cer. 8) 3
Drying & Burning (Cer. 4)	Thesis (Cer. 11)
Chemistry 652	_
16	17
COURSE IN CHEMISTRY	

A student may pursue a course in general science having chemistry as a major subject by conforming to the group requirements as outlined on page 148. Upon the completion of the course the candidate is granted the degree of Bachelor of Arts.

Semester hours. For definition see page 257.

For the more specialized training of the chemist the following course, largely prescribed, has been arranged. It leads to the degree of Bachelor of Science in chemistry.

Preliminary preparation in German equivalent to two years of high school work or one year of university work is advised. Students who are unable to offer this may take German 1 and 3 in the freshman year, but will be required to take German 4 and 5 or 6 in place of other electives.

Course in Chemistry FIRST YEAR

	IEAR
FIRST SEMESTER	SECOND SEMESTER
General Elementary Chemistry (Chem. 1)	S. H.1
Total16	Total17
SECOND	YEAR
S. H.	S. H.
French 1	French 1 4 Advanced Anal. Chem. (Chem. 5b) 5 Rhetoric 1 3 Physics 1, 3 4 Military (Mil. 2) 1
Total18	Total17
	YEAR
Mineralogy (Geology 5)	Organic Chemistry (Chem. 14, 9h)
Total18	Total18
FOURTH	
Hours Seminar (Chem. 93) 1 1 5 5 Electives in Chem. 5 Electives, history, economics or equivalent 5 5	Hours Seminar (Chem. 93) 1 1 1 1 1 1 1 1 1
16	16

The electives of the junior year and ten hours of the electives of the senior year must be taken elsewhere than in the chemistry department. Some biological subject, philosophy, history, and economics are recommended.

¹ Semester hours. For definition see page 257.

COURSE IN CHEMICAL ENGINEERING

The work of the technical chemist or superintendent is frequently so closely associated with mechanical and other engineering lines as to make a knowledge of these subjects essential. To meet these conditions, the following four-year course in chemistry and related engineering subjects has been arranged. The degree given is that of Bachelor of Science in chemical engineering.

Preliminary preparation in German equivalent to two years of high school or one year of university work is *prescribed*. It is also advised that students intending to take this course be prepared to offer mechanical drawing and manual training for entrance.

Where this preliminary training is lacking, students are advised, if possible, to register in shop work and general engineering drawing during the early years of their course.

Course in Chemical Engineering

FIRST	YEAR
FIRST SEMESTER	SECOND SEMESTER
S. H.	S. H.1
Total16	Total17
SECONI	YEAR
S. H. Differential and Integral Calculus (Math. 8a)	S. H. Analytical Mech. (T. & A. M. 7) 3 Advanced Analytical Chemistry (Chem. 5b)
THIRD	YEAR
S. H. Gas and Fuel Anal. (Chem. 65)	S. H. Inorganic Preparation (Chem. 61) 2 Physical Chem. (Chem. 31, 33) 5 Organic Chem. (Chem. 14, 9b) 5 Chem. Technology (Chem. 6) 2 Seminar (Chem. 93)

¹ Semester hours. For definition see page 257.

Course in Chemical Engineering

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FOURTH YEAR

S. H.	Hours
Assaying (Chem. 69)	Electives in Chemistry 3 Thesis (Chem. 11) 5 Steam Engines and Boilers (M. E. 11) 3 3
Metallurgy (Chem. 7)	E. E. 1
Totals16	17

THE COLLEGE OF ENGINEERING

For a description of the buildings occupied by this College, see page 56; for collections belonging to it (architecture, civil engineering, electrical engineering, and mechanical engineering), see page 66; for clubs and societies auxiliary to its courses of study, see page 114; for fees, see page 122; for honors, see page 106; for honorary societies, see page 113.

GENERAL STATEMENT

The purpose of the College is to train young men for the profession of engineering. In arranging its courses of study and practice, cultural subjects are interwoven with the strongly theoretical subjects which underlie and reinforce the more practical developments of the several departments. The instruction of the classroom and the practice afforded by the library, the drafting-room, and the laboratory proceed hand in hand. Throughout his course the student works upon problems and proceeds by methods similar to those which enter into the experience of the practicing engineer.

ADMISSION

See the general statement of the entrance requirements of the University, page 75.

SPECIAL STUDENTS

See the statement of the general regulations of the University in regard to special students, page 83.

DESCRIPTION OF DEPARTMENTS

The College of Engineering comprises the following departments: Department of Architecture, with courses in—

Architecture

Architectural Engineering

DEPARTMENT OF CIVIL ENGINEERING

DEPARTMENT OF ELECTRICAL ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING

DEPARTMENT OF MINING ENGINEERING

DEPARTMENT OF MUNICIPAL AND SANITARY ENGINEERING
DEPARTMENT OF THEORETICAL AND APPLIED MECHANICS
DEPARTMENT OF PHYSICS
DEPARTMENT OF RAILWAY ENGINEERING, with courses in—
Railway Civil Engineering
Railway Electrical Engineering
Railway Mechanical Engineering

ARCHITECTURE

The department of architecture offers two courses leading to the first degree, the course in architecture and the course in architectural engineering. The aim of these courses is to give the broadest preparation for the practice of architecture.

The course in architecture aims primarily to train the student to produce correct, thoughtful, and beautiful works of architecture. The schedule of studies includes a broad field of liberal and scientific subjects to supply the background for creative work and to give a knowledge of the principles involved in the processes of safe and economical construction. The course also includes much free-hand drawing for the purpose of training the eye to recognize correct proportion and training the hand to skillful and rapid drawing. The main portion of the course, however, consists of the study of architectural forms and principles and their application in architectural design.

The course in architectural engineering gives a thorough ground-work in mathematics and applied mechanics, and includes such studies as strength of materials, bridge, mill, and tall building construction, reinforced concrete, etc. The general principles of these subjects are applied to all forms of building construction in a course given in the senior year, known as architectural engineering. While specializing in construction, this course includes also the study of the forms and principles of architecture through such subjects as free-hand drawing, architectural history, architectural drawing, and architectural design.

Both courses in architecture prepare the student for the examinations of the Illinois State Board of Examiners of Architects, and graduates of the department are exempt from examinations

¹The School of Railway Engineering and Administration offers, in addition of the three courses named here, courses in railway transportation and railway traffic and accounting under the direction of the department of economics of the College of Literature and Arts. See pages 139 and 140 above.

required for entrance into the American Institute of Architects, and from the preliminary examination for the prize in Architecture of the American Academy at Rome. The Plym Fellowship in Architecture is awarded annually to a graduate of the department. This prize amounts to \$1,000 and provides for one year of travel for the study of architecture abroad. It is awarded by competition.

Students intending to take up the study of architecture should take free-hand and mechanical drawing and general history in high school.

EQUIPMENT

The collections of rendered and working drawings, lantern slides, plates, photographs, casts, specimens of American woods, building materials, and appliances are noted under "Collections" on page 66. A Zeiss epidiascope is used for direct projection of photographs, colored plates, etc., and a double electric lantern for projecting two pictures on the screen at once for comparative study. Geometrical and architectural models are lighted by a light fixed at the conventional angle for demonstration of the subjects of shades and shadows and conventional rendering. Extensive wall space in the corridors of the department and in all drafting rooms has been prepared for exhibition purposes, and a collection of instructive and interesting drawings is constantly displayed. The department occupies the entire fourth floor of Engineering Hall, and a large part of the third: its quarters include drafting rooms for undergraduate and graduate work, library, lecture rooms, studios for free-hand drawing, etc.

CIVIL ENGINEERING

The purpose in this department is to furnish a course of theoretical instruction, accompanied and illustrated by a large amount of practice. While the instruction aims to be practical by giving the student information and practice directly applicable in his future professional work, the prime object is the development of the mental faculties. The power to acquire information and the ability to use it are held to be of greater value than any amount of so-called practical knowledge.

EQUIPMENT

This department has an equipment of compasses, engineers' transits, solar transits, levels—ordinary and precise—plane tables, sex-

tants, chronometers, barometers, etc. The department is also provided with a collection of structural shapes, including full-sized joints of an actual railroad bridge, sections of columns, I-bars, etc., and with lithographs, photographs, and blue-prints of bridges and buildings.

The cement laboratory occupies rooms in the Mechanical Engineering Laboratory, and is provided with slate tables, testing machines, molding machines, sieves, etc., and sample barrels of hydraulic cement, varieties of sand, and other necessary materials.

The road laboratory occupies a room in the Mechanical Engineering Laboratory, and is provided with machines for testing the resistance of macadam material to impact and abrasion and for making the cementation test. The laboratory is also supplied with rattlers and other devices for testing paving material.

ELECTRICAL ENGINEERING

This department provides a course of study in theoretical and applied electricity. The first two years of work are substantially the same as in the other engineering courses, including practical work in drafting room and shop, as well as instruction in the fundamental principles of mathematics and physics. With the third year the fundamental studies relate more directly to electrical engineering. A course in dynamo machinery is followed by the theory of alternating currents, while laboratory and design courses emphasize underlying principles. Technical courses cover the generation, transmission, and distribution of electric power, and its various applications. In the laboratory a study of dynamo characteristics is followed in the fourth year by progressive experiments involving the operation of electrical machinery in principle and practice. Investigation of the problems of power distribution is a feature of advanced laboratory and thesis work.

EQUIPMENT

The 500 kilowatt power plant of the University supplies the electrical engineering laboratory with the current needed for its operation.

The power equipment in the electrical engineering laboratory includes forty direct current machines with a total capacity of 375 kilowatts, twenty alternating current machines with a total capacity of 300 kilowatts, and fifty transformers with a total capacity of 350

kilowatts. A 17-panel experimental switchboard affords adequate distribution and control.

The instrument room contains standards for the calibration of commercial instruments of all types. There are two hundred and fifty portable instruments for experimental work. A new 240-ampere-hour storage battery has been installed. The graduate laboratory contains much apparatus for research work, including four oscillographs, one 2000-cycle alternator, one 200,000-volt transformer, and apparatus for high voltage direct current investigations. The photometer room contains apparatus for tests of the various light sources. Two special 100-line switchboards are connected with cables and apparatus for experiments in telephony. The equipment for electrometallurgical work includes one 30-kilowatt induction furnace, one 25-kilowatt arc furnace, two 30-kilowatt resistance furnaces, and an annealing furnace.

MECHANICAL ENGINEERING

The courses in mechanical engineering are planned to present the theory and practice involved in the generation and transmission of power, and in the design, construction, operation, and testing of machinery of all kinds.

EQUIPMENT

To supplement and amplify the theoretical work of the class room, the department is provided with designing rooms and laboratories as follows:

The Designing Rooms are equipped with drawing tables, and are supplied with reference books, files of trade catalogs, gear charts, and collections of blue-prints. A collection of kinematic models, sectional steam specialties, lantern slides, and photographs is also available.

The Mechanical Engineering Laboratory is equipped with machines and testing instruments for instruction in steam engineering, gas power engineering, refrigeration, heating, and ventilation. Among the more important pieces of apparatus are the 210 h. p. experimental boiler, equipped with chain-grate stoker, fuel economizer, and induced draft; a separately fired steam superheater; a number of types of throttling, high speed automatic, and Corliss steam engines; several steam condensers; a compound two-stage air compressor; a large compound duplex steam pump; a Kerr steam

turbine; a DeLaval turbo-pump; a 200,000 lb. Lea water-flow; a 10-ton ammonia compression refrigerating machine; a number of typical gas, gasoline, and oil engines; a 50 h. p. suction gas producer, and several house-heating boilers and furnaces. The central heating and power plant contains a variety of types of boilers, stokers, pumps, and engines in commercial service.

The Shop Laboratories are provided with suitable machinery and apparatus to illustrate the several shop processes involved in the manufacture of machinery. In these laboratories emphasis is given to the engineering principles involved in machine construction and to the important problems of scientific shop management. These laboratories include the Wood Shop with an equipment of benches, lathes, machinery, and small tools needed in pattern construction; the Foundry equipped with cupola, brass furnaces, core ovens, molding machines, and facilities for bench and floor molding; the Forge Shop equipped with forges, anvils and small tools, a steam hammer, a power-driven punch and shear, and with gas and electric furnaces; and the Machine Shop with an equipment of lathes, planes, shapers, milling machines, grinders, boring mills, drill presses, and with typical small tools and fixtures used in manufacturing.

MECHANICS, THEORETICAL AND APPLIED

The courses in theoretical and applied mechanics are designed to meet the needs of students of engineering.

The Laboratory of Applied Mechanics comprises the materials testing laboratory and the hydraulic laboratory. The materials laboratory is equipped with testing machines for tension, compression, flexure, and torsion, and for testing various kinds of structural materials. The equipment includes a testing machine having a capacity of 600,000 pounds, arranged to take large and bulky pieces in tension, compression, and flexure. The hydraulics laboratory has a standpipe, pumps, water motors and turbine, measuring pits, Venturi meters, weir conduits, meter rating conduit, orifice boxes, weir boxes, and apparatus for experimental work on flow of water through pipes, hose, and nozzles. The University pumping station furnishes a supply of water at pressures up to 100 pounds a square inch.

MINING ENGINEERING

The department of mining engineering offers courses of instruction relating to the science and practice of mining and metallurgy to train young men for the various phases of mineral industry. The work of the department adds to the usual courses in mathematics, languages, chemistry, physics, geology, and general engineering, specialized work in mining, such as mine surveying, mine ventilation, mining machinery, coal washing, and ore concentration, metallurgy, administration and organization of mines, mining law, and the design of mining and metallurgy structures.

In addition to its work of instruction, the department concerns itself with the development and dissemination of such scientific facts as are likely to be of service in improving the practice of mining, with reference to efficiency in operation, to the security of life in the mines, and to the conservation of the fuel and other mineral resources of the state.

EQUIPMENT

The drawing rooms contain the catalogs of the manufacturers of mining machinery with a complete card index, the standard reference books on mine drafting, models of mine structures, and a collection of blue prints and drawings of mine structures.

The mine-gas and safety-lamp laboratory contains safety lamps of different types, electric and magnetic locking appliances, a dark room for photometric work, an Oldham safety-lamp testing apparatus, and appliances for gas and dust analysis.

The coal washing and ore dressing laboratory contains for crushing, rolls, gyratory and jaw crushers, and a 500-pound 3-stamp battery; for screening and sizing, trommels, shaking and vibrating screens, and V boxes; for concentrating and cleaning, pan, piston and pulsating jigs, bumping table, vanner, concentrating table, and slimer. These machines can handle from 3 to 5 tons of coal and one ton of ore an hour. There is also a complete sampling and drying equipment, a cyanide testing plant, and other small appliances used for preliminary testing. Adjoining this laboratory is a chemical and assay laboratory equipped for the analytical work required in connection with coal washing and ore concentration.

The explosives and drilling laboratory contains the principal types of rock drills, coal cutters, and a complete outfit for demonstrating the use of explosives.

MINE RESCUE STATION AND LABORATORIES

Coöperating with the department of mining engineering and with the State Geological Survey, the Federal Government has established at the University a mine rescue station. The purpose

of the station is to interest all connected with the mining industry in such modern appliances as breathing and resuscitation apparatus as part of the normal equipment of mines. At the station mine bosses and others are trained in the use of such apparatus, this service being rendered freely to all who may desire the benefits thereof.

The station offers to the student in mining engineering an opportunity for studying rescue and first aid work. Students are brought into contact with men in practice from all parts of Illinois and surrounding states who come to the station for training. About the present station as a nucleus other laboratories for experimental work in connection with mining are being developed, and are accessible for the use of students in mining engineering.

A laboratory is maintained jointly by the department of mining engineering, the State Geological Survey, and the United States Bureau of Mines for the study of mine dusts and mine gases. It is also available for the purpose of demonstration to university classes.

MUNICIPAL AND SANITARY ENGINEERING

This course is designed to train for the varied duties of the engineer employed on the design, construction, and operation of public works and public utilities, and for general engineering work.

The methods of training are intended to develop power to take up and solve new problems connected with municipal public works, as well as to design and to superintend the ordinary constructions. Surveying, structural materials, and structural design are taught as in the civil engineering course. Chemistry and bacteriology are given so far as is necessary to a comprehension of the questions involved in water supply and sewage disposal; and instruction is given in mechanical and electrical engineering in the generation and transmission of power.

PHYSICS

The department of physics occupies the Laboratory of Physics. This building supplies facilities and equipment for instruction and investigation in physics. Gas, distilled water, compressed air and vacuum, and direct and alternating electric currents of a wide range in amperes and in volts are available in all parts of the building. There is a collection of over 4,000 pieces of apparatus for the courses of instruction offered and also for advanced work, and only

a small part of the equipment is antiquated. New investigations can usually be started with the apparatus on hand. There are two workshops, one for the advanced students and instructors, and one for the mechanician of the department. The students' shop is equipped with lathes, drill press, bench tools, etc. The mechanician's shop contains lathes, milling machines, drill press, and other facilities for fine machine work.

The University library contains all the important sets of journals of physics and the related sciences in English, French, and German. The recent volumes of the physical journals, together with a collection of text-books, encyclopædias, dictionaries, and other reference books, are also found in the special library of the Laboratory.

RAILWAY ENGINEERING*

The department of railway engineering is organized to serve those who wish to prepare themselves for service in the technical departments of railways. The course in railway civil engineering adds to the fundamentals of a well-rounded engineering course a group of special subjects which concern the design, construction, and maintenance of the various details entering into the construction of track, track structures, and systems of railway signaling. The course in railway electrical engineering emphasizes the design and construction of those details peculiar to electric railway lines; the operation and performance of electric cars and locomotives; and the development of the more general problems which arise in the electrification of existing steam lines. The course in railway mechanical engineering is intended to meet the requirements of those who are especially interested in steam railroad equipment. It deals with the design, construction, and maintenance of various types of railway cars; with conditions affecting train resistance; with the design and operation of steam locomotives; and with tests disclosing their performance.

EQUIPMENT

Three steam roads—the Illinois Central, the Cleveland, Cincinnati, Chicago & St. Louis, and the Wabash railroads—and an electric interurban road—the Illinois Traction System—enter Champaign and Urbana. The department enjoys the interest and coöperation of the officers of these railways, and is afforded by their courtesy

^{*} See also School of Railway Engineering and Administration, page 216.

numerous opportunities for practical road tests and field work. The division shops of the C., C., C. & St. L. railroad are located at Urbana and provide additional opportunity for similar work.

The department owns and operates, jointly with the Illinois Central Railroad, a railway test car designed for experimental work on steam roads. It is fully equipped for making train resistance and locomotive performance tests, and during the last ten years has been in frequent operation in carrying on resistance and tonnage rating tests on the Illinois Central Railroad and on several eastern roads.

For work on electric roads the department owns also an electric test car, of the interurban type, especially designed and built for the University for experimental work. It is equipped with four 50 horse-power direct current motors and with the Westinghouse multiple control system, and is provided with instruments for recording power, speed acceleration, and the other data needed in road tests. Through the courtesy of the Illinois Traction System this car is operated on its lines, which enter the campus of the University.

The department laboratory equipment includes a drop-testing machine and a brake-shoe testing machine, both constructed in accordance with the standards of the Master Car Builders' Association. The drop-testing machine is designed for use in testing the strength of railroad rails, car axles, car couplers, and draft gears, and may be used in studies of the physical properties of structural materials of any sort. The brake-shoe testing machine supplies means for determining the wearing properties and frictional qualities of brake-shoes, such as are employed in regular service on railroad trains.

A locomotive testing plant, equipped from the original designs of the department, occupies a building 40 by 115 feet. The plant is devoted exclusively to making tests to determine the performance of locomotives. The locomotives tested are furnished by certain western railroad systems under an arrangement which insures the maintenance in the plant of a locomotive which at all times shall be of latest design.

Much of the work in the railway courses is given in the departments of civil, electrical, and mechanical engineering, and the shop and laboratory equipment of these departments is available for students of the railway department.

SUGGESTED ELECTIVES

The following courses are suggested as electives for students in the College of Engineering whose time is not fully occupied with required work:

Accountancy, Art and Design 1; Astronomy 3 and 6; Chemistry 2, 3, 16, 31, 34, 35; economics; Geology 13; Mathematics 9a, 10, 16, 21a, 22a; Rhetoric 3, 7, 10, 13; Physics 15, 16, 17; Political Science 17; Library 12; Architecture 43, 44, 55, 57; Civil Engineering 4a, 5, 21, 22; Electrical Engineering 1, 2, 5, 6, 16, 29; Mechanical Engineering 7, 27, 30, 31; Railway Engineering 11, 61; for students of architecture, History 1, 9; landscape design; French and German.

SUMMER READING

All engineering students not graduates of a literary college are required to complete prescribed courses of reading of a non-professional character during the summer vacations following the freshman and sophomore years. The purpose of the summer reading is to increase the acquaintance of the student with literature, history, and general science, to develop in him a taste for such reading, and to impress him with the importance of such knowledge not only as a source of individual enjoyment, but as a practical aid to engineers in their social and business relations.

A circular on summer reading is issued, containing a list of books from which the students may choose. The books have been selected for their value in providing general training, but an attempt has been made to include only readable and attractive works. A statement of the books read during the summer is required at the beginning of the next college year.

GENERAL ENGINEERING LECTURES FOR FRESHMEN

One general lecture, sufficiently popular in character to interest and inspire young engineers, will be given each week. All freshman engineers are expected to attend this lecture.

TRIPS OF INSPECTION

The departments of the College of Engineering arrange trips of inspection for their students, to supplement the theoretical instruction of the classroom. The time occupied by the trip is three or four days, and the works visited are usually in Chicago or Milwaukee. The trips are taken during term time under the supervision of Uni-

versity authorities. The inspection trip forms an integral part of the course, and it is expected that all students eligible will participate. Students can be excused from attendance by the head of the department only, and if so excused, they are required, during the period occupied by the trip, to perform a set schedule of work approved by the head of the department. Students whose standing is such that they can ill afford to take the time from their academic duties may be required to remain at the University.

Each student who participates in a trip is required to make a report or submit to an examination upon the work inspected.

COURSES OF STUDY AND DEGREES

The courses of study leading to the degree of Bachelor of Science in the College of Engineering, as scheduled for the year 1912-1913, are given herewith in full. Each of the ten courses given may ordinarily be completed in a period of four years.

A graduate of the University of Illinois in architectural, civil, electrical, mechanical, mining, municipal and sanitary, or railway engineering may receive the degree of an allied course upon the completion of from thirty to thirty-six semester hours of work (including thesis) approved by the faculty. This work may ordinarily be done in one academic year.

A graduate of the Colleges of Liberal Arts of the University of Illinois, or of any college of equal standing, whose mathematical training includes the work of the calculus, who has had the usual course in physics, and who has had sufficient training in the principles of mechanics to enable him to begin the mechanics of the junior year, may receive the degree of Bachelor of Science in Engineering upon the completion of sixty-eight credit hours of work in engineering (including thesis) under the direction of the faculty. This work may ordinarily be done in two academic years. Candidates for the degree in the department of architecture are not required to be prepared in calculus or mechanics, but should have special preparation in drawing.

Course Required for Degree of B. S. in Architecture

FIRST SEMESTER	SECOND SEMESTER	
S. H. ¹	S. H. ¹	
Math. 4*—Trigonometry	Chem. 1a ³ or 1b—Inorg. Chem. 4 T. & A. M. 14—Elem. Mech. 4 Rhet. 1—Rhetoric and Themes. 3 Arch. 32—Arch. and Freehand Drawing 4 Mil. 2—Military Drill. 1 Mil. 1—Drill Regulations. 1 Phys. Tr. 1—Gymnasium. 1 Total 18	
SECONI	YEAR	
Phys. 2a—Physics Lectures	Phys. 2a—Physics Lectures	
Total18	Total18	
THIRD	YEAR	
French or German 4 Arch. 15—History of Arch 2 Arch. 25—Freehand Drawing 2 Arch. 35—Design 5 Arch. 45—Graphic Statics 3 Arch. 55—Building Sanitation 1 Arch. 65—Theory of Arch 1	French or German. 4 Arch. 16—History of Arch. 2 Arch. 26—Freehand Drawing. 2 Arch. 36—Design. 5 Arch. 46—Graphic Statics. 3 E. E. 9—Building Illumination. 1 Arch. 66—Theory of Arch. 1	
Total18	Total18	
FOURTH YEAR		
Arch. 27—Freehand Drawing. 2 Arch. 38—Thesis. 0 Arch. 37—Design. 7 Arch. 57—Heating & Ventilation. 2 Arch. 67—Theory of Form & Color. 2 English literature. 3 Econ. 2—Prin. of Econ. 2	Arch. 28—Freehand Drawing. 2 Arch. 38—Thesis. 7 Arch. 60—Special Lectures. 1 Arch. 68—Business Relations. 3 English literature. 3	
Total18	Total16	

Semester hours. For definition see page 257.
 The numbers refer to courses in the Description of Courses, page 255.
 Students who have had chemistry in the high school equivalent to Chemistry 1b will register in Chemistry 1a.

Course Required for Degree of B. S. in Architectural Engineering

FIRST SEMESTER	SECOND SEMESTER
G. E. D. 12—Gen. Eng. Drawing	S. H. ¹ G. E. D. 2 ² —Descriptive Geometry 4 Math. 6—Analytical Geometry 5 French 1, or German 3 or 5 or 6, or French 2, or Rhetoric 11, or Spanish 1 4 Arch. 8—Arch. Drawing, or M. E. 41 3 Mil. 2—Military Drill 1 Mil. 1—Drill Regulations 1 Phys. Tr. 1—Gymnasium 1 Total 19
SECOND	YEAR
Math. 7—Differential Calculus	Math. 9—Integral Calculus
Total19	Total20
THIRD	YEAR
T. & A. M. 6—Engin. Materials	T. & A. M. 10—Hydraulics 3 Arch. 5—Graphic Statics & Roofs 4 Arch. 6—History of Arch 4 Arch. 10—Estimating 1 Arch. 11—Arch. Seminar 1 M. E. 11—Steam Engines & Boilers 3 C. E. 10—Surveying 2
Total18	Total
FOURTH	YEAR
Arch. 57a—Heating & Ventilation 3 Arch. 19—Arch. Engineering 3 Arch. 38—Thesis 1 Arch. 31a—Arch. Reading 1 Arch. 34a—Arch. Eng. Seminar 1 C. E. 12—Bridge Analysis 2 C. E. 13—Bridge Details 2 C. E. 24—Metal Structures 1 M. E. 32—Mech. Eng. Laboratory 1	Arch. 68—Business Relations
Total15	Total15

¹ Semester hours. For definition see page 257.

² The numbers refer to courses in the Description of Courses, page 255.

³ Students who have had chemistry in the high school equivalent to Chemistry 1b will register in Chemistry 1a.

Course Required for the Degree of B. S. in Civil Engineering!

FIRST SEMESTER	SECOND SEMESTER
S. H. ¹ G. E. D. 1 ² —Gen. Eng. Drwg	S. H. ¹ G. E. D. 2—Descr. Geometry
Total18	Total19
SECOND	YEAR
Math. 7—Diff. Calculus	Math. 9—Integral Calculus
Total19	Total19
THIRD	YEAR
T. & A. M. 6—Eng. Matls	T. & A. M. 10—Hydraulics 3 C. E. 1—Road Engineering 2 C. E. 20—Graphic Statics 2 Astron. 3 & 6, or Geol. 13 5 M. E. 11—Steam Eng. & Boilers 2 Econ. 2—Prin. of Economics 2
Total16	Total17
FOURTH	YEAR
C. E. 5r—Masonry Construction	C. E. 6—Masonry & Reinf. Con. Design

¹ Semester hours. For definition see page 257.

² The numbers refer to courses in the Description of Courses, page 255.

³ Students who have had chemistry in the high school equivalent to Chemistry 1b will register in Chemistry 1a; those who have received credit for Chemistry 1a will register in Electrical Engineering 3 and 22.

Course Required for the Degree of B. S. in Electrical Engineering

First Semester S. H. ¹	Second Semester S. H. ¹
G. E. D. 12—Gen. Eng. Drwg	G. E. D. 2—Descr. Geometry
Total18	10tal19
SECOND	YEAR
Math. 7—Diff. Calculus	Math. 9—Integral Calculus
Total19	Total18
THIRD	YEAR
T. & A. M. 6—Eng. Matrls	T. & A. M. 10—Hydraulics 3 E. E. 5—Alt. Currents 4 E. E. 23—Elec. Eng. Lab 2 Phys. 4—Elec. & Magn. Meas 2 M. E. 13—Mech. Eng. Lab 3 Math. 9a—Integral Calculus 2
Total18	Total16
FOURTH	YEAR
E. E. 13—Seminar 1 E. E. 14—Adv. Alt. Currents 4 E. E. 24—Elec. Eng. Lab. 2 E. E. 32—Electrical Design 2 M. E. 15—Thermodynamics 3 Econ. 2—Prin. of Economics 2 M. E. 23—Steam Eng 2 Total 16	E. E. 13—Seminar
10tal10	10tal/

Semester hours. For definition see page 257.
 The numbers refer to courses in the Description of Courses, page 255.
 Students who have had chemistry in the high school equivalent to Chemistry 1b will register in Chemistry 1a.

Course Required for the Degree of B.S.in Mechanical Engineering

FIRST SEMESTER	SECOND SEMESTER	
S. H. ¹	S. H. ¹	
G. E. D. 12—Gen. Eng. Drawing	G. E. D. 2—Descr. Geometry	
Total18	Total19	
SECONI	O YEAR	
Math. 7—Diff. Calculus 5 Phys. 1—Physics Lectures 3 Phys. 3—Physics Laboratory 2 Rhet. 1—Rhetoric and Themes 3 M. E. 42—Machine Shop 3 M. E. 4—Machine Design 2 Mil. 2—Military Drill 1	Math. 9—Integral Calculus 3 Phys. 1—Physics Lectures 2 Phys. 3—Physics Laboratory 2 Rhet. 1—Rhetoric and Themes 3 T. & A. M. 7—Analyt. Mech 3 M. E. 42—Machine Shop 2 M. E. 16—Steam Eng 3 Mil. 2—Military Drill 1	
Total19	Total19	
THIRD	YEAR	
T. & A. M. 6—Eng. Materials	M. E. 7—Thermodynamics 3 M. E. 9—Mach. Design 3 M. E. 29—Seminar 1 T. & A. M. 11—Analyt. Mechanics 3 E. E. 16—Dynamo Mach 4 Chem. 16—Eng. Chemistry 3	
Total	Total17	
FOURTH YEAR		
M. E. 6—Heat Engines 2 M. E. 8—Mech. of Machinery 3 M. E. 9—Mach. Design 3 M. E. 12—Mech. Lab 3 M. E. 19—Seminar 1 E. E. 6.—Alt. Currents 2 Econ. 2—Prin. of Economics 2 Total 16	M. E. 6—Heat Engines	

Semester hours. For definition see page 257.
 The numbers refer to courses in the Description of Courses, page 255.
 Students who have had chemistry in the high school equivalent to Chemistry 1b will register in Chemistry 1a.

Course Required for the Degree of B. S. in Mining Engineering

FIRST SEMESTER	SECOND SEMESTER	
S. H. 1 G. E. D. 12—Gen. Eng. Drawing	S. H. ³ G. E. D. 2—Descr. Geometry	
SECOND YEAR		
Math. 8a—Diff. & Int. Calculus. 5 Phys. 1—Physics Lectures. 3 Phys. 3—Physics Laboratory. 2 Rhet. 1—Rhetoric and Themes. 3 Min. 1—Mining Prin. 1 Chem. ³ 1b or 1a—Inorg. Chem. 4 Mil. 2—Military Drill. 1 Total 19	Phys. 1—Physics Lectures	
THIRD	YEAR	
T. & A. M. 8—Analyt. Mech	Min. 4—Mine Surveying. 4 Min. 5—Mine. Vent. 3 C. E. 20—Graphic Statics. 2 M. E. 35—Steam Eng. 3 Geology 13—Engin. Geology. 5 Total 17	
FOURTH	YEAR	
Min. 6—Mech. Eng. of Mines	Min. 7—Mine Admin. Organization and Law. 2 Min. 8—Mine Plans. 2 Min. 10—Min. Lab. 2 Min. 11—Thesis. 3 Geology 2. 3 E. 16—Dynamo Elec. Mach. 4 Total 16	

Semester hours. For definition see page 257.
 The numbers refer to courses in the Description of Courses, page 255.
 Students who have had chemistry in the high school equivalent to Chemistry 1b will register in Chemistry 1a.

Course Required for the Degree of B. S. in Municipal and Sanitary Engineering

FIRST SEMESTER	SECOND SEMESTER
S. H. ¹	S. H. ¹
G. E. D. 12—Gen Eng. Drawing	G. E. D. 2—Descr. Geometry
Total18	Total19
SECONI	YEAR
Math. 7—Diff. Calculus 5 Phys. 1—Physics Lectures 3 Phys. 3—Physics Laboratory 2 Rhet. 1—Rhetoric and Themes 3 C. E. 21—Surveying 5 Mil. 2—Military Drill 1	Math. 9—Integral Calculus
Total19	Total19
THIRD	YEAR
T. & A. M. 6—Eng. Materials	T. & A. M. 10—Hydraulics
Total16	Total17
FOURTH	YEAR
M. & S. E. 2—Water Supply Eng4 M. & S. E. 6a—Water Pur., Sewage Disp. & Gen. Sanitation 3 C. E. 5—Masonry Constr 5 C. E. 12—Bridge Analysis 2 C. E. 13a—Bridge Details 2 E. E. 28—Elec. Eng 1	M. & S. E. 3—Sewerage

¹ Semester hours. For definition see page 257.

² The numbers refer to courses in the Description of Courses, page 255.

³ Students who have had chemistry in the high school equivalent to Chemistry 1b will register in Chemistry 1a.

Course Required for the Degree of B. S. in Railway Civil Engineering1

FIRST SEMESTER S. H. ²	SECOND SEMESTER S. H. ²
G. E. D. 13—Gen. Eng. Drawing 4 Math. 4—Trigonometry	G. E. D. 2—Descr. Geometry
Total18	Total19
SECONE	YEAR
Math. 7—Diff. Calculus 5 Phys. 1—Physics Lectures 3 Phys. 3—Physics Laboratory 2 Rhet. 1—Rhetoric and Themes 3 C. E. 21—Surveying 5 Mil. 2—Military Drill 1	Math 9—Integral Calculus 3 Phys. 1—Physics Lecture 2 Phys. 3—Physics Laboratory 2 Rhet. 1—Rhetoric and Themes 3 T. & A. M. 7—Analyt. Mech. 3 C. E. 22—Top. Surveying 4 C. E. 23—R. R. Curves 1 Mil. 2—Military Drill 1
Total19	Total19
THIRD	YEAR
T. & A. M. 6—Eng. Materials 1 T. & A. M. 8—Analyt. Mech 2½ T. & A. M. 9—Res. of Materials 3½ C. E. 4—R. R. Surveying 5 Chemistry 1b or 1a—Inorganic Chemistry 4	T. & A. M. 10—Hydraulics
Total16	Total18
FOURTH	YEAR
R. E. 33—Econ. Theory of Ry. Loc. 4 R. E. 35—Signal Eng. 1 Econ. 41—Ry. Hist. & Organization 3 C. E. 5—Masonry Con. 5 C. E. 12—Bridge Analysis 2 C. E. 18—Tunneling. 1 C. E. 24—Metal Structures. 1 R. E. 50—Seminar. 1	R. E. 30—Thesis 3 R. E. 32—Ry. Structures. 2 R. E. 50—Seminar. 1 Econ. 42—Ry. Admin. 3 C. E. 6—Mas. & Reinf. Con. Des. 2 C. E. 14a—Bridge Design. 2 C. E. 16—Eng. Con. & Spec. 2
Total18	Total

Differs from the course in civil engineering only after the first semester of the third year.
 Semester hours. For definition see page 257.
 The numbers refer to the courses in the Description of Courses, page 255.
 Students who have had chemistry in the high school equivalent to Chemistry 1b will register in Chemistry 1a.

Course Required for the Degree of B. S. in Railway Electrical Engineering¹

First Semester S. H. ²	SECOND SEMESTER S. H. ²
G. E. D. 18—Gen. Eng. Drawing 4 Math. 4—Trigonometry	G. E. D. 2—Descr. Geometry
Total18	Total19
SECONI Math. 7—Diff. Calculus 5	YEAR Math 9—Integral Calculus
Math. 7—Dhir. Calculus	Phys. 1—Physics Lectures
Total19	Total18
THIRD	YEAR
T. & A. M. 6—Eng. Materials	T. & A. M. 10—Hydraulics
Total18	Total18
FOURT	I YEAR
R. E. 10—Seminar 1 R. E. 64—Elec, Ry. Practice 3 E. E. 14—Adv. Alt. Currents 4 E. E. 24—Elec. Eng. Lab 2 M. E. 15—Thermodynamics 3 Econ. 2—Prin. of Economics 2 M. E. 23—Steam Eng. 2	R. E. 10—Seminar 1 R. E. 63—Ry. Lab. & Road Tests. 3 K. E. 65—Elec. Ry. Practice 3 E. E. 34—Elec. Design & Power Plants 3 Econ. 16—Econ. Problems 2 R. E. 30—Thesis 3
Total 17	Total 15

¹ Differs from the course in electrical engineering in the fourth year only.

² Semester hours. For definition see page 257.

⁸ The numbers refer to the courses in the Description of Courses, page 255.

Course Required for the Degree of B. S. in Railway Mechanical Engineering1

FIRST SEMESTER S. H. ²	SECOND SEMESTER S. H. ²
G. E. D. 12—Gen. Eng. Drawing 4 Math. 4—Trigonometry	G. E. D. 2—Descr. Geometry
Total 18	Total 19
SECOND	YEAR
Math. 7—Diff. Calculus 5 Phys. 1—Physics Lectures 3 Phys. 3—Physics Laboratory 2 Rhet. 1—Rhetoric and Themes 3 M. E. 4—Mach. Design 2 M. E. 42—Mach. Shop 3 Mil. 2—Military Drill 1	Math. 9—Integral Calculus
Total 19	Total 19
THIRD	YEAR
T. & A. M. 6—Eng. Materials	M. E. 9—Mach. Design
Total 18	Total
FOURTH	YEAR
R. E. 1—Locomotives 2 R. E. 2—Locomotive Design 3 R. E. 4—Locomotive Performance 2 R. E. 8—Dynamometer Car Tests 2 R. E. 10—Seminar 1 M. E. 8—Mech. of Mach 3 E. E. 6—Alt. Currents 2 Econ. 2—Prin. of Economics 2	R. E. 3—Shops & Aux. Equip. 2 R. E. 7—Adv. Design. 3 R. E. 10—Seminar. 1 R. E. 30—Thesis. 3 R. E. 61—Traction. 3 C. E. 10—Surveying. 2 Econ. 16—Econ. Prob. 2
Total17	Total16

¹ Differs from the course in mechanical engineering only after the first *Differs from the course in mechanical engineering only after the first semester of the third year.

*Semester hours. For definition see page 257.

*The numbers refer to the courses in the Description of Courses, page 255.

*Students who have had chemistry in the high school equivalent to Chemistry 1b will register in Chemistry 1a.

THE COLLEGE OF AGRICULTURE

For the buildings used by this College, see page 57; for a list of its courses, page 73; for clubs auxiliary to its courses of study, page 114; for honors, page 106; for honorary societies, page 113; for fees and expenses, page 122.

PURPOSES

This College offers courses of instruction to both men and women. The courses offered to men are designed for three distinct purposes:

First, and mainly, to train for the profession of farming.

Second, to train for the teaching of agriculture in the public schools.

Third, to train for the profession of landscape gardening.

The courses for women, offered by the department of household science, have two purposes in view:

First, and mainly, to train young women in the science and art of household affairs.

Second, to prepare teachers for giving instruction in domestic science in high schools, and, in connection with the College of Science, to fit for college and university positions.

In the case of both men and women the great purpose is to prepare for the practical affairs of life. Technical knowledge and skill should be developed along with, and not at the expense of, those things which tend to the production of cultured and versatile men and women. Accordingly the technical work is closely associated with the related sciences, and students are required to divide their time fairly with those subjects that develop general knowledge and breadth of view.

The College offers over ninety courses of instruction in technical subjects, besides opportunity to elect from the scientific and literary offerings of the other colleges of the University.

The elective system prevails, and with a few exceptions the student is left free to select those subjects which seem best fitted

to meet his needs, always under the advice and guidance of the faculty.

Credit is given for all work accomplished; this credit counts toward graduation if the student desires a degree.

ADMISSION

For the regulations in regard to admission to the College of Agriculture, see the general statement of the entrance requirements of the University, page 75.

SCHOLARSHIPS IN AGRICULTURE AND HOUSEHOLD SCIENCE

For detailed information concerning scholarships in agriculture and household science, see page 118.

FACILITIES FOR INSTRUCTION AND METHODS OF WORK

The close affiliation of the College with the work of the Agricultural Experiment Station not only enables the University to support a larger faculty than would otherwise be possible, but also permits a much higher degree of specialization. For the most part those who teach in the College are the ones who conduct experiments in the same subjects in the Station.

The methods of instruction vary with the nature of the courses. In general the laboratory method prevails. Text-books are used whenever good ones are available. Both the laboratory and the text are supplemented by lectures and reference readings. Buildings and laboratory space, illustrative specimens and material, and library facilities are provided.

AGRICULTURAL EXTENSION

Agricultural extension work serves as the intermediary between the College of Agriculture and the Agricultural Experiment Station on the one hand and the local community and the farm on the other. Each department does extension work, and so far as possible provides special men for such work. The responsibility for the work of these men lies with their own department. For this reason not all of the extension effort issues from one office.

For administrative purposes and to coordinate these activities through a regular channel, agricultural extension is administered as a separate department. conducting all extension enterprises which do not deal with technical subjects and cooperating with other departments in diffusing the result of their work in the State.

Some of the general extension enterprises are: agricultural extension schools and demonstrations in different localities; the Two Weeks' Course given annually at the College in January; helping at farmers' institutes and similar gatherings, with special railway lecture trains, at the boys' state fair school, and in educational exhibits at fairs and elsewhere; welfare work in rural communities; and excursions to the College and taking care of visitors.

Aside from this, courses of study are offered to assist in determining what phases of agriculture are suitable for secondary school purposes and how they should be taught, and for the discussion of agricultural organization, extension projects, and methods.

AGRONOMY

The department of agronomy gives instruction in those subjects which relate especially to the field and its affairs, as drainage, farm machinery, field crops; the chemistry, physics, and bacteriology of the soil; manures and rotation in their relation to fertility; plant breeding. The department possesses equipment and facilities for instruction in these subjects, and added to this are opportunities for contact with the research work of the Agricultural Experiment Station, especially in crop production, soil fertility, and plant breeding, both in the analytical and pot culture laboratories and on the experiment fields at the University and in other parts of the State.

Attention is called here to the fact that in case circumstances prohibit a regular four-year course, it is possible for a student who has had sufficient preparatory training so to arrange his studies as to obtain the necessary prerequisites and complete the general courses in soil physics and soil fertility in two years' time. (See Agronomy o and 12.)

ANIMAL HUSBANDRY

This department gives courses covering the separate study of sheep, swine, and beef cattle and their products; heavy and light horses with their care and training; the management of herds, flocks, and studs; the principles and practice of feeding and of breeding; and the chemical and physiological phases of animal nutrition.

For the study of animals about 500 pure-bred cattle, sheep, swine, and horses are constantly available in the herds, flock, and stud of the University, which are also used for investigations in feeding and breeding and for the illustration of the type or types of each These consist of Percheron, Standard-bred, Shire, and American Saddle horses: Shorthorn, Hereford, and Aberdeen-Angus cattle: Shropshire, Oxford, Southdown, Hampshire, Rambouillet, Dorset, and Cheviot sheep; Poland-China, Berkshire, Duroc Jersey, Chester White. Tamworth, and Yorkshire swine. In addition. animals are secured from time to time to illustrate the market classes and grades of live stock, and special attention is given to instruction in the selection of animals with reference to feed lot and market requirements. For the class work in stock judging a room with tan-bark floor is provided in the Agricultural Building. where specimen animals may be brought before the classes. About 1000 lantern slides and a collection of photographs, charts, diagrams. and models afford further material for the study of stock judging. The study of pedigrees and development of the various breeds is facilitated by 75 sets of different herd, stud, and flock registers and complete files of the leading American and British live stock iournals.

The equipment for instruction and investigation in the feeding, breeding, and management of live stock consists of modern buildings for the housing of beef cattle, swine, sheep, and horses, with the appliances necessary for individual and collective feeding tests; brick-paved feed lots and open sheds, in which steers may be fed in carload lots; a feed storage barn 44x72 feet, with various forms of grinding mills and other machinery for the preparation of feed; and various kinds of harness, vehicles, and other appliances for the training of horses. The department also maintains a cold storage room and other equipment for conducting demonstrations in the cutting and handling of meats; a collection of wool samples, a fibre testing machine, and microscopes for the study of wool. The chemical and physiological laboratories of the department afford facilities for advanced work in animal nutrition.

DAIRY HUSBANDRY

The department of dairy husbandry offers courses under the four general divisions of economic milk production, city milk supply, dairy bacteriology, and dairy manufactures.

For instructional and experimental purposes two herds of dairy cows are maintained, one a grade herd used primarily as an experimental herd, the other a pure bred herd composed of Holstein Friesians, Guernseys, Jerseys, and Ayrshires.

For instruction in dairy cattle and economic milk production, free use is made of both herds.

The actual business of economic milk production is illustrated by a twenty-acre dairy farm conducted by the department for the purpose of producing the most milk possible per acre, at the least expense. The feeding and breeding experiments, while conducted primarily for the use of the Experiment Station, are of value to the student.

Practical instruction in city milk supply is given in a dairy building used exclusively for cooling and bottling from the pure bred herd. Sanitary methods of delivery are still further illustrated in the daily distribution of this milk on the University milk route.

A bacteriological laboratory affords facilities for instruction in the courses in dairy bacteriology and city milk supply, and for bacteriological studies necessary when outbreaks of communicable disease appear to be due to the local milk supply. The laboratory is used also in the investigation of specific dairy problems.

Facilities for instruction in the manufacture of butter and cheese are provided in the University creamery, where 400 pounds of fat, in the form of whole milk and cream, are daily made into butter and marketed on a commercial basis. The creamery is equipped with the most improved cream separators, pasteurizers, cream ripeners, churns, and refrigerating machine. The student has free access to these rooms for laboratory purposes. In addition to this, the creamery and apparatus are used in investigation of problems involved in the manufacture of butter.

HORTICULTURE

The department of horticulture offers instruction in thirty-five courses, covering the five divisions of horticulture (pomology, olericulture, floriculture, landscape gardening, and forestry), and also in subjects dealing with principles and practices applicable to all the divisions, such as plant propagation, spraying, evolution of horticultural plants, and experimental horticulture.

For the instruction in pomology, use is made of the various fruit plantations maintained by the department, including four apple orchards of ages from two to twenty years; a plum orchard representing the leading varieties of European, Japanese, and native plums; plantations of pears, peaches, and cherries; a vineyard of some fifty varieties of grapes trained on the Kniffin system; and lesser areas devoted to the small fruits. This assortment of fruit trees and plants, with an equipment in pruning tools, affords facilities for practice in pruning. The products of the orchards are drawn upon for practice in the grading and packing of fruits and the study of systematic pomology. A collection of fruit packages is maintained, with a series of models showing the construction of fruit storage houses. There is also a collection of wax models of fruits representing the principal varieties grown in Illinois.

For the use of students in olericulture, or vegetable gardening, certain areas of ground are reserved, on which the various garden operations are illustrated, and various crops are grown. In addition to the land, the equipment for instruction in vegetable gardening consists of hotbed frames and sash, seed drills and wheel hoes of various types, an assortment of hand tools, markers, planters, and other special tools, tying material and packing boxes for onions, asparagus, lettuce, and other products, with other accessories and appliances for the growing and handling of vegetables.

A new house 105x28 feet affords additional facilities for both experimental and instructional work in vegetable gardening. A house 80x28 feet and another 60x30 also add to the equipment for work in plant breeding.

The facilities for instruction in floriculture consist of four houses each 105x28 feet connected by a corridor house 10x80 feet. While intended primarily for experimental purposes, these houses serve as illustrations in modern greenhouse construction and furnish material for the work in commercial floriculture. A growing house 332x34 feet and a palm house 40x80 feet, to be devoted entirely to instructional work, will add to the facilities of the department. A service building containing class rooms and offices is equipped with florists' supplies used in the work. The greenhouses contain a collection of plants, including geraniums, begonias, carnations, chrysanthemums, and bulbs in assortment, and furnish facilities for work in amateur floriculture and certain branches of plant propagation.

The collection of ornamental shrubs and trees growing upon the campus furnishes material for plant studies in connection with the work in landscape gardening, while the plantings about the ı

horticultural building and certain residences in the vicinity of the University illustrate types of landscape design. A series of 500 lantern slides is used in the lectures in landscape gardening.

Instruction in forestry is facilitated by a collection of native woods and a forest tree plantation of some thirty acres, consisting of Scotch pine, white pine, Norway spruce, European larch, green ash, black walnut, hickory, bur oak, white elm, and other species.

In addition to the material already mentioned as available for use in the course in plant propagation, the small fruit and grape plantations are drawn upon for material for making the various types of hardwood cuttings and for illustrating propagation by layers, suckers, etc. Scions are cut from the orchards, and seeding stocks are purchased in quantity each year for work in grafting. A herbarium of cultivated plants furnishes material for the study of the relationships and classification of economic and ornamental plants.

HOUSEHOLD SCIENCE

The courses of instruction given in this department are planned to meet the needs of two classes of students, viz.: (a) those students who specialize in other lines of work, but desire a knowledge of the general principles and facts of household science; (b) those students who wish to make a specialty of household science.

The department of household science is housed in the north wing of the Woman's Building. The kitchen for extension work with dining room adjoining and a well equipped laundry are in the basement. The first floor contains two class rooms, a seminar room, a large exhibition room for illustrative material for work in house construction and textile fabrics, offices, and cloak rooms, second floor are individual, diet, institutional, and class kitchens, small and large dining rooms, chemical laboratory, two large sewing rooms, offices, and store rooms. On this floor provision is made for the study of the preparation and service of food in large quantities in the institutional kitchen and large dining room adjoining. The equipment on this floor provides practice for those interested in the problems of institutional management and for dietitians. The third floor contains additional sewing rooms, offices, equipment for teaching home care of the sick, and an apartment in which the problems of house construction, furnishing, and household administration are studied.

VETERINARY SCIENCE

In the department of veterinary science the student is instructed in subjects relating to the prevention of disease among domestic animals and their treatment when affected by disease,

REQUIREMENTS FOR GRADUATION

Students who have satisfied all matriculation requirements and have maintained throughout their course a satisfactory record of scholarship and moral character will be graduated with the degree of Bachelor of Science, upon having completed the studies of the prescribed list and sufficient electives to make a total of 130 semester hours.

A thesis is not required for graduation, but any student who has completed not less than 90 hours of credit before the senior year may then elect a thesis course in any department (subject to the approval of the head thereof) in which he has done at least 20 hours' work.

Graduates of approved colleges may expect to secure a degree in agriculture from the University of Illinois upon completion of the technical and scientific requirements. This will ordinarily require approximately two years of residence work; a minimum of one year will be exacted.

GENERAL COURSE IN AGRICULTURE

All students except those in the formal courses in household science, floriculture, or landscape gardening are required to take the same work during the freshman year and part of the sophomore year. This gives the student a correct conception of the fundamental farm practices and an insight into the technical branches of agriculture, such as animal and dairy husbandry, horticulture, farm crops, soils, farm mechanics, buildings, etc., and leaves the junior and senior years open for election.

One hundred thirty hours are required for graduation, as follows:

Agriculture prescribed first two years...19 hours Agriculture prescribed as electives.....40 hours

Total agriculture required.....

Non-agriculture prescribed......42 hours Non-agriculture prescribed as electives. 15 hours Total non-agriculture required 57 hours Open electives..... 14 hours 130 hours PRESCRIBED SUBTECTS Required for the Degree of Bachelor of Science in General Course in Agriculture FIRST YEAR First Semester Second Semester Hours Hours Chemistry 2 and 3..... 5 Chemistry 1..... 5 Rhetoric I..... 3 Rhetoric 1* 3 Animal Husbandry 5..... 3 Agronomy 25..... 4 Dairy Husbandry 3..... 1 Horticulture 1a..... 2 Agricultural Extension 4..... 1/2 Horticulture 1b........... 2 Agricultural Extension 4... 1/2 Military 2..... I

SECOND YEAR

Physical Training..... I

Military I and 2..... 2

Physical Training..... I

Chemistry 13a or Botany 1 5 Animal Husbandry 6 3 Military 2 1	Botany I or Chemistry 13a. 5 Agronomy 26
Electives	Electives

In addition to the above, students will take the following:

Agriculture, electives	40 hours
Non-agriculture, electives	15 hours
English 20	4 hours
Science, elective	5 hours
Open electives	14 hours

^{*}Those students who show by examination a proficiency in composition sufficient to qualify them for the second semester's work in Rhetoric 1 may be excused from the first semester's work. See page 81.

Students registered previous to September, 1912, will meet the requirements outlined below so far as it is possible to do so:

PRESCRIBED SUBJECTS

Required for the Degree of Bachelor of Science in General Course in Agriculture

Agronomy 6 or 7, 9, 12	$12\frac{1}{2}$	hours
Animal Husbandry 7	3	hours
Botany 121	I	hour
Chemistry I, 2, 3, I3a	15	hours
Dairy Husbandry 1	3	hours
Economics 2	2	hours
English Literature 1	4	hours
Entomology 4	$2\frac{1}{2}$	hours
Horticulture I, 10a	8	hours
Military I, 2	5	hours
Physical Training I, Ia	2	hours
Rhetoric I	6	hours
Thremmatology I (Animal Husbandry 30)	5	hours
Total prescribed subjects	69	hours
Floating List A. a minimum of	47/	house
Elective List A; a minimum of		
Elective List B; a minimum of	3	hours
Elective List C; a minimum of		hours
Elective List D; a minimum of	10	hours
Total	421/2	hours

LANGUAGE REQUIREMENT

In addition to the above, students who have not offered for matriculation three units of foreign language (commonly three years of high school work) of which two units are in the same language, will be required to offer one of the following at their option:

- I. Two years of entrance and eight hours of university credit in foreign language. Except by special permission these credits should not be divided among more than two languages.
 - 2. Sixteen university credits in the same foreign language; or
 - 3. Eight hours of university credit in English literature in

¹ Botany 12 is not required of students who elect Botany 5 and no credit will be allowed to such students in this course.

addition to the standard requirement, together with eight hours of economics, or eight hours of history, or eight hours of education.

ELECTIVE LISTS

List A—Animal Husbandry 1 to 4, 11 to 14, 17 to 18, 22 Dairy Husbandry 2

List B-English literature 2, 16, 23

Rhetoric 16, 20, 19, 3

List C—This list includes all subjects offered in technical agriculture and not included in the prescribed list, viz.:

Agricultural Extension 1, 3

Agronomy I to 8, 10, 13, 16 to 22

Animal Husbandry 1 to 4, 8 to 14, 16, 18, 21 to 23b

Dairy Husbandry 2, 7, 8, 11 to 22

Horticulture 2 to 9, 10b to 15b, 17 to 34

Veterinary Science 2, 4, 5, 6

List D-Botany 1, Botany 5, Zoology 1

Summary

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Total language requirement	16	٥r	8	hours
Total list electives	45	or	53	hours
Total prescribed subjects			69	hours

GENERAL COURSE IN FLORICULTURE

The object of this course is to fit men and women for the profession of floriculture. The laboratory exercises in the technical subjects consist of practical work in the greenhouses and garden and give the student a working knowledge of the best methods now in use.

PRESCRIBED SUBJECTS

Required for the Degree of Bachelor of Science in General Course in Floriculture

Agronomy 9, 12	10 hours
Animal Husbandry 30	5 hours
Botany I, 2, 7	15 hours
Chemistry 1, 2, 3, 13a	15 hours
Economics 2	2 hours
English Literature 20	4 hours

Entomology 4	irs irs irs irs
Total prescribed	irs irs

COURSE OF INSTRUCTION

First Year

- I. Entomology 4; Chemistry I; Rhetoric I; Horticulture 4; Military 2; Physical Training I, Ia.
- 2. Chemistry 2; Chemistry 3; Rhetoric 1; Horticulture 5; Military 1, 2; Physical Training 1, 1a.

Second Year

- 1. English 20; Chemistry 13a; Botany 2; Military 2.
- 2. Zoology 1; Horticulture 15a; Botany 1; Military 2.

Third Year

- I. Botany 7; Agronomy 9; Horticulture 15b; Economics 2.
- 2. Agronomy 12; Horticulture 7; Electives, 8 hours.

Fourth Year

- 1. Horticulture 10a; Horticulture 12a; Horticulture 31; Electives, 6 hours,
- 2. Horticulture 30; Horticulture 32; Animal Husbandry 30; Horticulture 10b.

GENERAL COURSE IN HOUSEHOLD SCIENCE

Of the 130 hours required for graduation, 99 are provided for in the prescribed list and the restricted electives of List A. The other 31 hours of credit necessary for graduation may be taken, subject to the approval of the Dean of the College, from any courses offered in the University. Holders of scholarships in

household science in this College take the course as laid out here. Variations from it can be made only by special permission of the Council of Administration on recommendation of the faculty of the College.

PRESCRIBED SUBJECTS

Required for the Degree of Bachelor of Science in General Course in Household Science

Art and Design 1, 12, 19	. 9	hours
Botany I, 5	. 10	hours
Chemistry I, 2, 3	. 10	hours
English 1, 2	. 8	hours
Household Science 1, 2, 3, 6, 7, 10, 12, 14	. 20	hours
History I, or 3	or 8	hours
Physiology 4	. 5	hours
Physical Training 7, Physiology 6		hours
Rhetoric I	_	hours
Zoology		hours
Language (see page 191)8	•	
English or Rhetoric		hours
*List A, a minimum of		hours
	• 4	nours
Total required subjects99 to	TOO	hours
	_	
Electives31	to 21	nours
T-4-1		1
Total	130	hours

ELECTIVES

List A.—English 19, 24
Horticulture 1, 2, 3, 5, 19, 28
Household Science 5, 13
Economics 2, Sociology 1
Physics 2a
Education 1, 2, 6, 9
Agronomy 5, 6
Animal Husbandry 10
Dairy Husbandry 1, 14, 19

^{*}If Physics has not been offered for entrance, its equivalent should be elected.

Course of Instruction

First Year

- Household Science 2; Chemistry 1; Rhetoric 1; Physical Training 7 and 9; English 1.
- 2. Household Science 1; Chemistry 2, 3; Rhetoric 1; Physical Training 7; English 2.

Second Year

- I. Household Science 6; Zoology I; Household Science 7; Art and Design I; Horticulture IO; Electives.
- 2. Household Science 14; Botany 1; Art and Design 12; Horticulture 19; Electives.

Third Year

- 1. Art and Design 19; Physiology 4; Advanced English; Electives.
- 2. Household Science 3; Household Science 12; Advanced English; Economics 2; Art and Design 19; Electives.

Fourth Year

- I. Household Science 10; Sociology 1; Education 1; History 3.
- 2. Education 2 or 6; Botany 5; History 3.

GENERAL COURSE IN LANDSCAPE GARDENING

The work is two-fold: (1) Elementary work for one year open to all who are working for a baccalaureate degree in agriculture; (2) a four years' course in preparation for professional landscape gardening.

PRESCRIBED SUBJECTS

Required for the Degree of Bachelor of Science in Landscape Gardening

Architecture 13, 14, 15, 16, 31, 32, 33, 34, 35, 36 32 hour	's
Art and Design 4 6 hour	
Botany I 5 hour	s
Civil Engineering I, 21, 22 II hour	
Descriptive Geometry (G. E. D. 2) 4 hour	s
Economics 2 2 hour	s
Entomology 4 3 hour	s
Language (See page 191)8 or 16 hour	s
Horticulture 5, 10a, 10b, 23a, 23b, 24a, 24b, 25a, 25b,	
27, 28, 31, 36 37 hour	s

Mathematics 4	2 hours
Military I, 2	5 hours
Physical Training I, Ia	2 hours
Rhetoric 1	6 hours

COURSE OF INSTRUCTION

First Year

- 1. Architecture 13; Architecture 31; Military 2; Physical Training 1; Rhetoric 1; Horticulture 10a; General Engineering Drawing 2.
- 2. Architecture 14; Architecture 32; Military 1 and 2; Physical Training 1; Rhetoric 1; Horticulture 10b; Mathematics 4.

Second Year

- I. Architecture 15; Architecture 33; Horticulture 24a; Botany I; Civil Engineering 21; Military 2.
- 2. Architecture 16; Architecture 34; Horticulture 24b; Horticulture 5; Civil Engineering 22; Military 2.

Third Year

- 1. Architecture 35; Horticulture 23a; Art and Design 4; Language; Economics 2.
- 2. Architecture 36. Horticulture 23b; Art and Design 4; Language; Civil Engineering 1.

Fourth Year

- 1. Horticulture 25a; Horticulture 31; Horticulture 27; Electives.
- 2. Horticulture 25b; Horticulture 28; Entomology 4; Electives.

REQUIREMENTS FOR GRADUATION

Students are graduated with the degree of Bachelor of Science in General Course in Landscape Gardening upon completing the following work:

- 1. The studies of the prescribed list.
- 2. Sufficient electives, which may be any university courses approved by the instructor in charge, to make a total of 130 hours.

GENERAL COURSE FOR PROSPECTIVE TEACHERS OF AGRICULTURE

A general course is offered for prospective teachers of agriculture. Among the subjects recommended are the following:

Agronomy 2, 9, 12, 25, 26; Animal Husbandry 1a, 2a, 4a, 5, 6, 11a, 11b, 30*; Dairy Husbandry 2, 3; Horticulture 1a, 1b, 3, 5, 10a, 19; Agricultural Extension 1, 4; Botany 1, 12; Chemistry 1, 2, 3, 13a; Entomology 4; Zoology 1; English 20; Rhetoric 1, 5, 7; Economics 2; Education 1, 6; Library Science 12; Military 1, 2; Physical Training 1, 1a; foreign language.

For further information concerning this course, address the Dean of the College of Agriculture.

TWO WEEKS' COURSE IN AGRICULTURE AND HOUSEHOLD SCIENCE

AGRICULTURE

The Corn Growers' and Stockmen's Convention is held annually at the College of Agriculture (in 1913, January 13-25). At the time of this meeting, the College gives instruction for two weeks in subjects of special interest to young men on the farm, such as corn and stock judging, milk and seed testing, soils, etc. A morning session of two hours each day is devoted to the discussion of questions of importance to the farmer. In the afternoon an hour is given to lectures upon topics of general interest. The rest of the day is filled with class work in the subjects mentioned above. Each year about a thousand men who are unable to spend a longer time away from home avail themselves of this opportunity to come in touch with the work of the College.

HOUSEHOLD SCIENCE

At the same time, a two-weeks' course in household science consisting of lectures and recitation work is given in the rooms of the department of household science in the Woman's Building.

ADMISSION

No entrance examinations are required and any farmer or farmer's son or daughter may enter these courses. It is important that everyone should be here at the opening of the session. Upon arrival at Champaign or Urbana, application should be made at the University Young Men's Christian Association, where information concerning board and room may be obtained.

^{*}Students taking the Teachers' course may take Animal Husbandry 30 for one-half semester and receive 21 credits therefor.

THE GRADUATE SCHOOL

THE EXECUTIVE FACULTY

EDMUND JANES JAMES, Ph.D., LL.D., President of the University

David Kinley, Ph.D., LL.D., Dean of the Graduate School, Director of the Courses in Commerce, and Professor of Economics

BOYD HENRY BODE, Ph.D., Professor of Philosophy

ALBERT PRUDEN CARMAN, A.M., Sc.D., Professor of Physics

GUY STANTON FORD, Ph.D., Professor of Modern European History

JULIUS GOEBEL, Ph.D. Professor of German

WILLIAM FREEMAN MYRICK Goss, M.S., D.Eng., Dean of the College of Engineering, Director of the School of Railway Engineering and Administration, Director of the Engineering Experiment Station, and Professor of Railway Engineering

George Abram Miller, Ph.D., Professor of Mathematics

HERBERT WINDSOR MUMFORD, B.S., Professor of Animal Husbandry

WILLIAM ABBOTT OLDFATHER, Ph.D., Associate Professor of the Classics

SAMUEL WILSON PARR, M.S., Professor of Applied Chemistry

JAMES HARVEY PETTIT, Ph.D., Professor of Soil Fertility

STUART PRATT SHERMAN, Ph.D., Professor of English

ARTHUR NEWELL TALBOT, C.E., Professor of Municipal and Sanitary
Engineering

HENRY BALDWIN WARD, Ph.D., Professor of Zoology

HISTORY AND ORGANIZATION

Although for many years the University of Illinois had offered advanced students facilities for study and research in various lines, graduate work was undertaken under the name of the Graduate School for the first time in 1892. In 1894 the administration of the School was vested in the Council of Administration and the Vice-President of the University became Dean of the School. In 1906 the Graduate School was organized as a separate faculty, consisting of a dean and members of the University faculty assigned to this duty by the President. No means of support, however, were provided, separate from those provided for the undergraduate work. In the winter of 1906-7, the Forty-fifth General Assembly of the State passed an act appropriating \$50,000 per year for the support of a Graduate School of the Arts and Sciences in the State University. This appropriation has been continued by succeeding legislatures.

By an act of the Board of Trustees the teaching faculty of the Graduate School includes all members of the University faculty who give instruction in courses approved for graduate credit. The affairs of the School, however, are in charge of the executive faculty appointed each year by the President.

ADMISSION

For admission to the Graduate School to work for a degree an applicant must hold a first degree either from the University of Illinois or from some other university or college of equivalent standing. Admission to particular graduate courses or departments may be secured only by those who have had the requisite undergraduate work in those courses or departments.

In order to be enrolled as a member of the Graduate School a student must be doing graduate work. The possession of a first degree does not entitle a student to be enrolled in the Graduate School, if the courses which he is taking are undergraduate.

Students of mature age who do not hold a first degree, but satisfy the Dean of the School and the officers of the departments in which they wish to work of their earnestness of purpose and special fitness, may be permitted to take work in the Graduate School without reference to candidacy for a degree. In order to secure this permission, however, a candidate must have had such preliminary preparation for the work he wishes to take up as would justify his

admission to the Graduate School as a candidate for a degree if he could meet the other requirements fully.

Each student is required to attend a minimum of four class, lecture, or laboratory exercises a week in the first year of his graduate study; and in no case is he permitted during his course to attend more than twelve a week.

Continuous residence and study are required of all members of the Graduate School, unless they are granted leave of absence by the Dean, upon recommendation of the professors in charge of their work, for the purpose of carrying on elsewhere studies or investigation in the line of work for their degrees.

The principal aim of graduate study is the development of the power of independent work and the promotion of the spirit of research. Each candidate for a degree is expected to have a wide knowledge of his subject and of related fields of work; for the graduate student is not expected to get from lecture and laboratory courses all the knowledge and training necessary to meet the requirements for his degree.

Students are warned against restricting themselves merely to the courses prescribed or suggested by the departments in which they are studying. Each student is expected to do a wide range of private reading and study; and in many cases will find it advisable to take one or more courses of lectures quite outside the field of his chosen subjects.

Application blanks for admission may be secured from the Dean of the Graduate School or from the Registrar of the University.

THE MASTER'S DEGREE

Candidates for the degree of Master of Arts or Master of Science are required to do at least one year's work in residence and to write a thesis.

A candidate for a master's degree may do all his work in one subject, or he may select a major and one minor, or a major and two minors. A major or minor denotes the field of knowledge of a department, or such part thereof as constitutes a separate and independent division of that field. The candidate must do at least half his work in his major subject.

Each candidate for a master's degree is also required to present a thesis on some subject approved by the professor in charge of his major work and the faculty of the School. The requirement of a

thesis may be waived, however, upon the recommendation of the head of the department in which the student is doing his major work, and the approval of the Dean, provided application to waive the thesis is made at the beginning of the year. In no case will permission to take the degree without a thesis be given if applied for later than the latest date for the approval of thesis subjects, as shown by the calendar.

The thesis required from a candidate for a master's degree ordinarily will demand about one-fourth of the student's time. The thesis must be type-written, on "thesis paper," and the title-page must be printed. The thesis, in its final form, together with a certificate of approval by the proper officer, must be left by the student at the Dean's office at the time set in the calendar.

Credit is not given for work done in other universities. The candidate is examined here on the subjects offered by him for the advanced degree.

THE MASTER'S DEGREE IN ENGINEERING

Two classes of second degrees are open to graduates of the College of Engineering, namely, academic and professional.

The academic second degree in engineering is Master of Science, following Bachelor of Science, in Architecture, Architectural Engineering, Civil Engineering, Electrical Engineering, etc. This degree is conferred in accordance with the regulations described above for academic work in residence only.

The professional second degrees in engineering are as follows:

Master of Architecture after B. S. in Architecture.

Architectural Engineer after B. S. in Architectural Engineering. Civil Engineer after B. S. in Civil Engineering or B. S. in Municipal and Sanitary Engineering.

Electrical Engineer after B. S. in Electrical Engineering.

Mechanical Engineer after B. S. in Mechanical Engineering.

Civil Engineer, Electrical Engineer, or Mechanical Engineer, after B. S. in Railway Engineering, according to the course.

Professional degrees are conferred upon two classes of candidates: 1. Graduates of the College of Engineering of the University of Illinois who have been engaged in acceptable professional work away from the University for a period of not less than three years after receiving the degree of Bachelor of Science. 2. Graduates of the University of Illinois, or of institutions of equal standing, who

have been engaged in acceptable professional work in residence at the University for a period of not less than three years after receiving the degree of Bachelor of Science.

In "acceptable professional work" may be included contributions to technical literature, activity in professional societies, investigations of engineering problems, and the teaching of engineering subjects.

A candidate must declare his candidacy and file with the Dean of the College of Engineering, as chairman of the committee in charge, a detailed statement covering his professional study and experience, not later than the first Monday in November preceding the commencement at which he proposes to qualify. Prior to December 31 next succeeding, he must submit for approval an outline of his proposed thesis and he must file his completed thesis not later than April 1. If the statement of professional experience and study and the thesis are accepted, the candidate must present himself at commencement in order to receive the degree.

Candidates for professional engineering degrees who already hold the degree of Master of Science may qualify for the professional degree after two years of professional work.

THE DEGREE OF DOCTOR OF PHILOSOPHY

General Statement of Requirements.—The requirements for the degree of Doctor of Philosophy are a thorough mastery of a selected-field of study, evidence of the power of independent investigation in this field, a broad knowledge of the wider field of study of which this major subject is a part, a general acquaintance with related fields of knowledge, and a mastery of all branches of study which are necessary to a full knowledge of the main subject. Each student who is seeking this degree is expected to choose for study and final examination a major subject, or field of study, and a first and second minor. The major subject is the field in which the student expects to become expert and an authority. The first minor must be a subject closely related to the major and may, under certain conditions and with proper approval, be a subdivision of the major field of study. The second minor should be chosen outside of the major field of study.

When a candidate chooses any subject as his major, and a division of that subject as his minor, he is not permitted to choose as a second

minor any division of work in that same department, excepting by vote of the executive faculty of the School.

The candidate's list of subjects must receive the approval of the head of the department in which he chooses his major work and of the Dean of the School.

Period of Study.—The minimum period of study required for securing the degree of Doctor of Philosophy is three years. The degree is conferred, however, not for residence during a certain period, but for scholarly attainments and power of investigation, as proved by thesis and examinations.

Candidates should note that credit is not given for work done in other universities, excepting in the sense that their residence at other institutions is counted towards the residence requirement for the doctor's degree.

At least the first two or the last one of the three years required must be spent at this University.

Examinations.—Towards the end of his second year of study, or, by special permission, at the beginning of his third year, the candidate for the degree must submit to a preliminary examination conducted by the members of the faculty with whom he is doing his principal work, in order to determine whether he will be accepted as a candidate for the degree in the following year. This examination is partly oral, and may be wholly so. At this time, or before, the candidate will be required to demonstrate his ability to read French and German, and any other language needed for the prosecution of his work.

On or before the last Monday in May of the year in which the candidate expects to come up for his degree, he must submit to a final examination by a committee appointed by the Dean of the Graduate School. This examination will be partly written. The candidate will also have, however, an oral examination. These examinations will not be confined to the courses which the candidate has attended in the University of Illinois only, if he has done part of the work elsewhere; nor even to the field covered by the courses specifically taken in this or other universities; but will be so conducted as to determine whether the candidate has a satisfactory grasp of his major subject as a whole, and a general acquaintance with the broad fields of knowledge represented by his course of study.

Before the candidate is admitted to the final examination and

the defense of his thesis, he may be required to take any other examination, oral or written, that is thought proper by the various departments in which he has studied. If, after having passed his preliminary examination, he fails in the third year of his study to meet the expectations of the professors in charge of his work, or in any way fails to maintain the standard of scholarship and power of research expected of him, he may be refused admission to the final examination.

The final examination in the major and minor subjects may not be divided. The examination must be taken all at one time even though it requires several sessions.

Thesis.—The power of independent research must be shown by the production of a thesis on some topic connected with the major subject of study. The candidate is expected to defend his thesis or dissertation before the members of the faculty, or as many of them as may wish to question him about it, in connection with his final examination.

The subject of the thesis should be chosen not later than the end of the second year of study, and must be submitted for formal approval by the faculty not later than the first Monday of November of the year when the degree is expected. A typewritten copy of the complete thesis, on thesis paper, with proper certificate of approval, must be in the hands of the Dean not later than noon of the Saturday nearest the middle of May.

The thesis must be printed and one hundred copies deposited in the library of the University before the degree is conferred. If, for any reason, the thesis cannot be printed and one hundred copies deposited before commencement time, the candidate must, before the first Monday in June, deposit a bond acceptable to the Comptroller of the University and the Dean of the Graduate School for the cost of printing his thesis, or such part thereof as may be regarded as sufficient to meet the requirements of the rules.

The title page of each thesis must bear the words "Submitted in partial fulfillment of the requirements of the degree of Doctor of Philosophy in—(here put the major subject), in the Graduate School of the University of Illinois." The title page must also contain the full name of the author, the full title of the thesis, the year of imprint, and, if a reprint, the title, volume, and statement of the pagination of the volume from which it is reprinted. Each thesis must have an appendix giving a short biography of the candidate,

including the institutions he has attended, his degrees and honors, the titles of his publications, and such other matters as may be pertinent.

SCHOLARSHIPS AND FELLOWSHIPS

A number of fellowships and scholarships have been established by the Trustees of the University. To first year graduate students of ability and promise there are open a number of scholarships with a stipend of \$250 each and freedom from tuition, incidental, and laboratory fees. To second and third year graduate students, that is, those who have had one or two years of graduate study, there are open fellowships with a stipend varying from \$300 to \$500, with freedom from fees. The larger stipends are given only to students who are expected to take their degrees within the year. Each holder of a fellowship or scholarship must pay the matriculation fee of ten dollars, unless he holds a first degree from the University of Illinois, and also the diploma fee of five dollars on receiving his diploma.

Candidates for these scholarships and fellowships must be graduates of the University of Illinois, or of colleges or universities having equivalent requirements for bachelors' degrees.

Application must be made upon blanks to be obtained from the Dean of the Graduate School. These application forms should be addressed to the Dean of the Graduate School as early as possible in February of the academic year preceding that for which the fellowship is desired.

Persons appointed are required to send the Secretary of the Board of Trustees prompt notice of their acceptance or refusal; and to agree that, if accepted, the appointment will not be resigned to take a similar one in any other institution during the year for which it is awarded.

Nominations to fellowships are made upon the grounds of worthiness of character, scholastic attainments, and promise of success in the principal line of study or research to which the candidate proposes to devote himself.

Scholarships and fellowships are good for one year, but may be renewed for a second or a third year in special cases. An appointment as honorary fellow, without stipend, may be made as specified for paid fellowships in the case of any one who has shown distinguished merit in his work.

RESEARCH FELLOWSHIPS IN THE ENGINEERING EXPERIMENT STATION

The Engineering Experiment Station is devoted entirely to research. Its purposes are the elevation of engineering education, and the study of problems of special importance to engineers and to manufacturing, railway, mining, and industrial interests.

Ten fellowships, each of five hundred dollars a year, have been established in the Engineering Experiment Station. Applicants to whom these fellowships are awarded agree to hold them for two years. They devote half of their time to the work of the Engineering Experiment Station, which work is not applicable toward a degree; the other half of their time is given to graduate study in candidacy for a degree. Application for these fellowships should be made to the Director of the Engineering Experiment Station.

THE GRADUATE CLUB

The Graduate Club is an organization of the graduate students and graduate faculty. Its purpose is to furnish an opportunity for those working in different departments to become acquainted with one another and thus counteract the tendency toward narrowness which graduate work often develops.

THE LIBRARY SCHOOL

For a description of the *Library Building*, see page 60; for an account of the *libraries* themselves, see pages 67, 68; for the *collection in library economy*, see page 68; for fees, see page 122.

AIM AND SCOPE

It is the purpose of the Library School to offer a two years' course of instruction to students who wish to enter library work as a profession, and to offer certain library courses to students in other schools and colleges of the University of Illinois who may wish to elect them as a part of their course of training. The course is planned so that students who complete the first or junior year's work are prepared to accept positions in library service, the schedule of courses in this year being so arranged as to cover the generally accepted methods and practices in modern library economy. In the second or senior year some of the junior subjects are gone over more intensively, greater emphasis being placed upon historical and comparative methods of treatment; other subjects are introduced to give the student a broad outlook and a scholarly, technical, and administrative equipment for the more responsible positions.

One or two years of training will not take the place of years of experience, but they will make the student more adaptable and his general library service more intelligent. The practical work of the course amounts to over three months of time, counting eight hours a day, and this is more valuable, because more varied, than if taken in three consecutive months in any one library. Moreover, the library school student has the benefit of comparative study, while the apprentice becomes skillful in the ways of one library only. Although stress is laid upon simplicity and economy, methods are taught to enable students to work in large libraries where bibliographic exactness is required. Emphasis is laid upon the extension of the activities of the public library, and upon the importance of cooperation between the library and the schools and other educational agencies.

A student in any other school or college of the University of Illinois may elect any course for which he is prepared. These courses will help students in general reading, in research work, in club work, as high school teachers, or as members of a library committee or a board of trustees. The school also offers a course of eighteen hours on the use of the library and the ordinary reference books, which will help in general reading or study.

ENTRANCE REQUIREMENTS

Admission to the Library School is conditioned upon the presentation of credentials showing that the applicant holds a bachelor's degree in arts or science from the University of Illinois or has had other equivalent training.

Application blanks for admission may be secured from the Director of the School, and these, filled out, should be filed, together with such documentary material as the candidate may offer, showing qualifications for admission, not later than the registration days in September. It is to the candidate's interest to present the application and certificates early, in order that the question of admission may be settled before he comes to the University.

ADVANCED STANDING

College graduates who have had approved library experience or who have attended other library schools may be accorded advanced standing by securing credit for some of the courses required for graduation. After satisfying all entrance requirements and after matriculation, the applicant for advanced standing may secure such credit either by examination or by transfer of credits from another institution offering courses in library economy.

SPECIAL STUDENTS

It is the practice of this School to admit as special students only those mature persons who, though unable to meet the formal requirements for entrance, are substantially prepared for thorough and advanced work. Such persons must present evidence of possessing the requisite information and ability to pursue profitably, as special students, the chosen subjects, and some substitute for the regular requirements for entrance, such as approved library or teaching experience, foreign travel, etc. Preference will be given to those already engaged in library work, especially in Illinois, who may desire more adequate training in particular subjects.

LIBRARY VISITS AND FIELD WORK

Each year all the students in the School visit the libraries, and certain of the book binderies, book stores, and printing establishments of either Chicago and vicinity or St. Louis and vicinity. During this visit, which occupies one week, the students are accompanied by a member of the faculty.

In order to assure a varied library experience, each student in the senior year is required to spend one month in an assigned public library, working, as far as practicable, under the same conditions as a member of the staff of that library.

SCHEDULE OF COURSE

The course is two years in length. For graduation a student must receive credit for all courses except those marked with an asterisk (*), which are elective. The degree of Bachelor of Library Science is conferred on a student who has completed the two years' course.

HINTOR YEAR

	FIRST SEMESTER		SECOND SEMESTER								
21	Reference work (3 hrs.)	21	Reference work (3 hrs.)								
3	Selection of books (2 hrs.)	3	Selection of books (2 hrs.)								
4	Practice work 4 hours per week	4	Practice work, 4 hours per week								
	(2 hrs.)		(2 hrs.)								
16	Order, accession, and shelf work	7	History of libraries (2 hrs.)								
	(2 hrs.)		Trade bibliography (1 hr.)								
17	Classification and book numbers		Loan department (1 hr.)								
	(3 hrs.)	21	Printing, binding, indexing								
18	Cataloging (3 hrs.)		(2 hrs)								
23	Library administration and cur-	22	Library extension (3 hrs.)								
	rent library literature (1 hr.)	23	Library administration and cur- rent library literature (1 hr.)								
	SENIOR	VE	AP								

SENIOR YEAR 6 Subject bibliography (2 hrs.) Subject bibliography (2 hrs.)

8	*Advanced reference work (2	9	*Bookmaking (2 hrs.)
	hrs.)	10	Practice work, 8 hours per week
10	Practice work, 8 hours per week		(4 hrs.)
	(4 hrs.)	13	*Public documents (2 hrs.)
	Public documents (2 hrs.)	15	Seminar (2 hrs.)
15	Seminar (2 hrs.)	24	Selection of books (2 hrs.)
24	Selection of books (2 hrs.)	25	Advanced classification and cata-
27	Bibliographical institutions (1 hr.)		loging (1 hr.)
26	Library administration (3 hrs.)	26	Library administration (3 hrs.)

*Practice work in various departments of the library (1 to 4 hrs.)

LIBRARY CLUB

Any member of the Library School faculty or of the staff of the University Library and any student in the Library School may become a member. Six meetings are held each year to discuss professional questions, and for social purposes.

¹The numbers in these columns refer to the Courses in Library Science in the General Description of Courses.

THE SCHOOL OF MUSIC

For admission to the School of Music, see the general statement of entrance requirements of the University, page 75. For fees, see page 123. For the faculty of the School of Music and descriptions of the courses in Music, see under "Music" in the "General Description of Courses," Part III.

AIMS AND SCOPE

The School of Music offers regular courses leading to the degree of Bachelor of Music, and a teacher's certificate in public school music.

Students who are not working for the degree in music may receive a statement from their instructors upon completing not less than one year of college work.

Classes in ear training meet twice each week. The fundamental principles of musical notation are studied thoroughly, and the ear is trained to recognize intervals, chords, etc., so that the student may eventually think music. Music students are required to attend these classes.

The sight-singing classes meet twice each week. This work is required of music students.

Choral, orchestral, and ensemble work are required of all students who are sufficiently advanced.

A series of lectures and recitals is given each year. Only artists of the best reputation appear. Music students are admitted free and are required to attend these concerts.

The instructors in the School of Music give recitals and lectures on musical subjects during the year.

The courses in the history of music and musical theory, as well as the work in the University Orchestra and the University Choral Society, may be taken by students in other departments without fee.

REQUIREMENTS FOR GRADUATION

Candidates for the degree of Bachelor of Music must offer credit for 130 semester hours, including the prescribed subjects named below, together with an acceptable thesis on a topic related to music.

Course in Music

1. PRESCRIBED SUBJECTS

(a) History and Theory of Music

Music 1—History of Music 4 h Music 1a—Acoustics 2 h Music 2—Harmony 4 h Music 3—Advanced Harmony 6 h Music 4—Counterpoint, Canon, and Fugue 6 h Music 5—General Theory, Free Composition 5 h	ours ours ours										
Total, history and theory27 h	ours										
(b) Practice											
Music Piano Voice Violin Cello First Year 7 12 17 32 12 h Second Year 8 13 18 33 12 h Third Year 9 14 19 34 14 h Fourth Year 10 15 20 - 16 h Music—Minor Subject 12aor17a 7aor17a 7aor12a - 4 h Music 23—Ear Training (2 years) 2 h Music 24—Sight Singing (2 years) 2 h	ours ours ours										
Total, practice	ours										
(c) Prescribed Subjects other than Music											
French, German, or Italian 16 he English 1 8 he *Rhetoric 1 6 he Rhetoric 3 3 he Military 1, 2 (for men) 5 he Physical training 1 and 1a (men) 2 he Physical training 7 and 9 (women) 3 he	ours ours ours ours										
Total, for men, 44 hours; for women	ours										

TOTAL, PRESCRIBED SUBJECTS:......For men, 129 hours; for women 125 hours 2. ELECTIVES

The remaining hours necessary to make up the required total of 130 hours—one hour for men, five hours for women—may be made in other musical subjects or in subjects offered in the colleges of Literature and Arts and Science.

COURSE IN PUBLIC SCHOOL MUSIC

The aim of the Course in Public School Music is to prepare competent teachers and supervisors of music for the public schools. Students completing the course are granted teachers' certificates.

^{*}Those students who show by examination a proficiency in composition sufficient to qualify them for the second semester's work in Rhetoric 1 may be excused from the first semester's work. See page 81.

An opportunity for practice teaching is offered. The course is one year in length, and comprises the following prescribed subjects:

Public School Music Course

Music 1—History of Music	4	hours
Music 23a—Ear Training.	2	hours
Music 24a—Sight Singing	8	hours
Practical Music, major, Piano or Voice (7 or 12)	4	hours
-3	6	hours

Advanced students may satisfy a part of the foregoing requirements by examination; in no case, however, is a student permitted to take less than 30 hours of work.

MUSICAL ORGANIZATIONS

The University Choral and Orchestral Society is conducted by the Director of the School of Music, and gives a series of concerts throughout the year. The orchestra meets for two hours' rehearsal once a week; it is open to all students who qualify for membership. The chorus meets once a week for rehearsal of choral works. Singers not connected with the University are admitted by examination.

The Military Band is conducted by the instructor in band instruments. Besides giving several concerts during the year, it furnishes music for regimental formations and ceremonies and other occasions as required by the President of the University. Membership is decided by competitive examination. A Second Band is also conducted, in order that all students who play band instruments ordinarily well may have an opportunity to play in a band. Each full term of service in the Band counts for one term of the required work in Military Science. After obtaining credit for four semesters' work those who are continued in the Band for not less than one year are paid an amount equal to the term, or "incidental", fees of the year.

THE SCHOOL OF EDUCATION

FACULTY

The faculty of the School of Education includes all those instructors who offer courses primarily intended for prospective teachers.

PURPOSE

It is the purpose of the School to bring together all the resources of the University which contribute in a professional way to the preparation of three classes of workers in the public school system:

- I. The High School Principal and the High School Teacher.— The School provides for the needs of the high school principal by supplying a general knowledge of the various subjects of the high school curriculum, as well as a knowledge of organization and administration as applied to the secondary school; and for those of the departmental specialist by supplying a more extended knowledge of a few subjects.
- 2. The Supervisor of Special Subjects.—Manual training, agriculture, domestic science, music, drawing, and physical training, as now taught in the better school systems, are subjects which demand specially trained supervisors; the facilities of the University for instruction in these subjects are thoroughly utilized.
- 3. The School Superintendent.—Demanding, as he does, a knowledge of the development of school systems, a keen insight into pedagogical problems, and an appreciation of child-nature, the superintendent needs extended preparation; this the School of Education is prepared to give.

COURSE

The course of study of the School of Education is made up of offerings selected from the work of the various departments of instruction in the University. The course is elective except for the

graduation requirements of the college in which the student is registered. Certain subjects are, however, required of all students who wish to be officially recommended by the University for high school positions. The work is arranged in four groups:

- (a) Courses in education, psychology, and sociology bearing directly upon the profession of the teacher.
- (b) Courses especially intended for teachers, offered by various departments of the University.
- (c) Suggested programs for students preparing to become special teachers and supervisors of agriculture, domestic science, drawing, music, or physical training.
- (d) Suggested programs for continuous and progressive work in subjects represented in the high school curriculum.

SPECIAL LECTURES

A number of special lectures are offered each year by the School of Education.

COMMITTEE ON APPOINTMENT OF TEACHERS

This committee has in charge the naming of candidates from among graduates of the University for positions as teachers or supervisors in public schools, colleges, and technical schools.

The Director of the School of Education is chairman of this committee, and the official nominations of students and graduates of the University to public school positions are made through his office.

The following resolution was adopted by the University Senate, June 3, 1912:

I. The University Committee on Appointments is authorized to issue its recommendation, signed by the committee as the agent of the University, in all cases in which it is satisfied with the student's scholarship and ability to teach. The committee shall regard the scholarship requirements as met if, in addition to carrying the professional courses mentioned in the next paragraph, the student has passed with an average grade of 85 in the courses necessary to constitute a major in the principal subject which he wishes to teach, and in courses aggregating a minimum varying from six to twelve semester hours (according to subject, and at the discretion of the committee) in each of the other subjects for which he wishes to be recommended. The committee shall, however, in each case secure the written opinion of the departments concerned, of the scholarship

of the applicant, and shall view the evidence of scholarship as shown by the records in the light of this opinion; and if there appear to the committee to be reasons which, from their nature, can not be shown by mere records, for questioning the scholastic ability of the student, the committee may, in its discretion, withhold the recommendation.

- 2. A candidate must have successfully completed the following courses in the department of education:
- a. An introductory course which shall aim (1) to acquaint the prospective teacher with the public-school system as it exists today in the United States, and (2) to present a brief outline of the principles of education. (A three-hour course.)
- b. A course in the techique of teaching, accompanied by observation of class-room work in secondary schools, and including a discussion of class-management (routine and discipline), the elements of school hygiene, and the types of school exercises. (A three-hour course.)
- 3. The Director of the School of Education may, in his discretion, excuse a candidate from the professional courses outlined above (1) if the candidate is a normal school graduate or has taken equivalent courses in a normal school or in another college or university; or (2) if the candidate has had at least one year of successful teaching experience. If, at the time of registration with the Committee on Appointments, the candidate has not completed one of the required courses but is enrolled at that time in the course, a committee recommendation may be given with the approval of the instructor in charge of the course.

The courses mentioned in Section 2 of the above resolutions are (a) Education I, Principles of Education, which is now offered as a three-hour course during the first semester; and (b) Education IO, Observation and Technique of Teaching, a three-hour course. Education IO may be taken either the first or the second semester.

THE SCHOOL OF RAILWAY ENGINEERING AND ADMINISTRATION

GENERAL STATEMENT

The School of Railway Engineering and Administration has been established to prepare men broadly for the technical and administrative departments of railroads. The work offered is arranged in five different courses, any one of which is designed to occupy four years' time. The courses are:

Railway Civil Engineering Railway Mechanical Engineering Railway Electrical Engineering Railway Transportation Railway Traffic and Accounting

The first three of these courses are administered by the College of Engineering, and a description of them appears with that of other courses offered by this College. Students are admitted to them under the same conditions as to other courses of the College of Engineering, and they have available for their use all of the library, drafting-room, and laboratory facilities which constitute the equipment of this College. The last two courses are administered by the College of Literature and Arts; they are described in detail in connection with the other courses of this College. Students are admitted to them under the same conditions as to other courses of the College of Literature and Arts.

It is the purpose of each of these courses to add to the broad foundation of discipline and training which should be supplied by every college course such specialized training as will be most useful to those who look forward to careers in railway service.

MILITARY SCIENCE

The military instruction is under the charge of an officer of the United States Army. The course as a whole has special reference to the duties of officers of the line. A full supply of arms and ammunition is furnished by the War Department, including 1,200 U. S. magazine rifles (model 1898) and accourrements, two field pieces of artillery, and full equipment for a signal corps and a hospital corps.

Every male student under twenty-five years of age, able to perform military duty, and not excused for sufficient cause, is required to drill twice each week until he has gained credit for four semester hours. He is also required to study drill regulations for infantry, and to recite upon the text once a week until he gains credit for one semester hour.

The practical instruction begins as soon as possible after a student enters the University. The standings in study and drill are placed on record with other class credits; one semester of recitations and drill counts two hours, and the three remaining semesters of drill three hours. This work is required for graduation in all the undergraduate colleges of the University.

The regiment, four battalions of four companies each, is composed mainly of the members of the freshman and sophomore classes. The non-commissioned officers are usually selected from the sophomore class, the lieutenants from the junior class, and the field officers and captains from the senior class and graduate school. There are 1,450 cadets and seventy-one commissioned officers in the regiment.

Artillery and signal detachments are organized mainly from those students of the second year or sophomore class who have made more than an average standing in the work of the previous year.

A special military scholarship, good for one year, is open to each student who attains the grade of a commissioned officer; its value is paid to the holder at the close of the year. Appointments in the regi-

ment are made on the nomination of the commandant of cadets confirmed by the Council of Administration.

Towards the close of the year a committee appointed by the President of the University examines candidates for nomination to the Governor of the State to receive commissions as brevet captains in the State militia. Candidates must be members of the senior class in full standing at the time of this examination; must have completed the course of military studies; must have served two semesters as commissioned officers; and must be approved by the Council of Administration as having good reputations as scholars, officers, and gentlemen.

The uniform is of cadet gray, the coat trimmed with black mohair braid, the trousers with black cloth stripe, cut after the U. S. Army pattern. During warm weather a blue flannel shirt is worn instead of the coat. In order that all uniforms worn at the University may be, in quality, make, and finish, in strict accordance with the specifications adopted by the Board of Trustees, all students enrolled in the military department are required to obtain them from that firm only that may, for the time being, be under agreement and bond with the Trustees to furnish said uniforms at a stated price and of standard quality.

The University military band is composed of students, and every full term of service therein is counted as one term of drill. Those who play in the band after having earned their five military credits necessary for graduation have their incidental fees remitted at the end of each year. Besides giving several concerts during the year, the band furnishes music for regimental formations and ceremonies and other occasions as required by the President of the University. Membership is decided by competitive examination.

PHYSICAL TRAINING

FOR MEN

The object of the work in this department is to preserve and improve the bodily health of the students by rational exercises and to teach proper intercollegiate sports. Regular classes are formed in swimming and fencing and for drill on the various gymnasium appliances. Lectures are given on personal hygiene.

All competitive athletic games are under the direct supervision of the Director of Physical Training, and an examination is required to show that membership on any team will not cause injury, but will tend to improve the physical condition. No student whose class work is unsatisfactory is allowed to play on a University team.

For a description of the Men's Gymnasium, see page 60.

FOR WOMEN

The object of the work of this department is to preserve and improve the general health, carriage, and co-ordination of the young women of the University. Each student is given a physical examination; suitable exercise is prescribed and advice given.

The class work embraces corrective, hygienic, and recreative exercise, including free and light gymnastics, marching, fancy steps, games, Maypole, etc. Tennis, hockey, basket-ball, volley-ball, German-ball, and quoits are played in season.

The gymnasium is open at certain hours and under suitable restrictions to all women of the University. The uniform consists of black serge bloomers, white "middy" blouse, and gymnasium shoes.

The swimming pool is open daily, except Saturday, from 10 to 12 a. m. and from 2 to 5 p. m. The regulation swimming suit of one piece must be made of either denim or mohair.

For a description of the Women's Gymnasium, see under Woman's Building, page 61.

THE SUMMER SESSION

EDMUND JANES JAMES, Ph.D., LL.D., President of the University WILLIAM CHANDLER BAGLEY, Ph.D., Director of the Summer Session

STAFF OF INSTRUCTION—1912

Samuel Herbert Anderson, A.M., Assistant in Physics
Ione Armstrong, Instructor in Library Science
William Chandler Bagley, Ph.D., Professor of Education
Clarence William Balke, Ph.D., Assistant Professor of Chemistry
Charles Anthony Barnhart, A.M., Assistant in Mathematics
Philip Stephan Barto, A.M., Assistant in German
Herbert Jewett Barton, A.M., Professor of the Latin Language and
Literature

VERNA BROOKS, A.B., Assistant in Physical Training for Women
WALTER BUCHEN, A.B., Assistant in English
LAURIE LORNE BURGESS, Ph.D., Associate in Chemistry
GEORGE ERNEST CARSCALLEN, A.M., Assistant in Mathematics
JOHN MANTEL CLAFF, A.M., Professor of English, Lake Forest
College

WILLIAM WALTER CORT, A.M., Instructor in Zoology.

A. F. COUTANT, Instructor in Zoology
CHARLES E. DECKER, Instructor in Physiography
WILLIAM WELLS DENTON, Ph.D., Assistant in Mathematics
CLARENCE GEORGE DERICK, Ph.D., Associate in Chemistry
GEORGE WILLIAM DOWRIE, A.M., Fellow in Economics
JAMES MERION DUNCAN, Instructor in Mechanical Engineering
JAMES EVERETT EGAN, A.B., Assistant in Chemistry

ARNOLD EMCH, Ph.D., Assistant Professor of Mathematics

NEWTON EDWARD ENSIGN, A.B., B.S., Instructor in Theoretical and Applied Mechanics

Augusta Dillman Evans, A.B., Assistant in Agricultural Extension
Stanley Prince Farwell, M.S., Instructor in Theoretical and Apblied Mechanics

JUSTUS WATSON FOLSOM, Sc.D., Assistant Professor of Entomology Guy Stanton Ford, Ph.D., Professor of History

KARL FREDERICK GEISER, Ph.D., Professor of Political Science, Oberlin College

HUGH GLASGOW, A.B., Assistant in Entomology

HENRY DAVID GRAY, Ph.D., Assistant Professor of English, Leland Stanford Jr. University

ERNEST MILTON HALLIDAY, A.B., LL.B., Associate in English

LEO GREGORY HANA, Director of the Men's Gymnasium

CHARLES HART HANDSCHIN, Ph.D., Professor of the German Language and Literature, Miami University

EDWARD CARY HAYES, Ph.D., Professor of Sociology

FELIX EMIL HELD, A.M., Assistant in German

MARY B. HILL, Assistant in Art and Design

HORACE ADELBERT HOLLISTER, A.M., High School Visitor

CHARLES FREDERICK HOTTES, Ph.D., Assistant Professor of Botany

PAUL EDWARD Howe, Ph.D., Instructor in Physiological Chemistry

LLOYD THEODORE JONES, A.M., Assistant in Physics

OLIVER H. KAMM, B.S., Assistant in Chemistry

CHARLES TOBIAS KNIPP, Ph.D., Assistant Professor of Physics

PHILIP AUGUSTUS LEHENBAUER, A.M., Assistant in Botany

ELLEN S McCarthy, Ph.D., Instructor in Chemistry

EUGENE IRVING McCormac, Ph.D., Professor of American History, University of California

ELMER MASSEY McDonald, Instructor in Agronomy

OSCAR ROSS MARTIN, A.B., Assistant in Economics

WILFORD STANTON MILLER, A.M., Assistant and Secretary in the School of Education

CHARLES HENRY MILLS, D.Mus., F.R.CO., Professor of Music

CLARENCE EUGENE NOERENBERG, A.B., A.E., Instructor in Theoretical and Applied Mechanics

ARETAS WILBUR NOLAN, M.S., Assistant Professor of Agricultural Extension

WILLIAM ABBOTT OLDFATHER, Ph.D., Associate Professor of the Classics

THOMAS EDWARD OLIVER, Ph.D., Professor of Romance Languages

JOSEPH C. PARK, Director of Industrial Education, Oswego, N.Y.,

State Normal School

HARRY GILBERT PAUL, Ph.D., Assistant Professor of the English Language and Literature

Francis Marion Porter, M.S., Instructor in General Engineering Drawing

MAURICE HENRY ROBINSON, Ph.D., Professor of Industry and Transportation

SIDNEY ARCHIE ROWLAND, JR., A.B., Assistant in Mathematics
HAROLD ORDWAY RUGG, B.S., C.E., Instructor in History of Education
WILLIAM FREDERICK SCHULZ, Ph.D., Assistant Professor of Physics
DAVID LEONARD SCROGGIN, Instructor in Mechanical Engineering
GEORGE WALLACE SEARS, M.S., Assistant in Chemistry
ORRIN HAROLD SMITH, A.M., Assistant in Physics
WILLIAM HERSCHEL SMITH, B.S., Assistant in Animal Husbandry
ARTHUR JERROLD TIEJE, Ph.D., Assistant in English
RALPH EARLE TIEJE, A.M., Assistant in English
VINCENT HOLLIS TODD, Ph.D., Fellow in German
GUSTAF ERIC WAHLIN, Ph.D., Instructor in Mathematics
HENRY BALDWIN WARD, Ph.D., Professor of Zoology

GENERAL STATEMENT

The Summer Session of the University of Illinois for 1912 opened on June 17, and closed on August 9, making a term of eight weeks. The Summer Session of 1913 will open on June 16, and close on August 8.

All of the courses extend through the eight weeks. Students who wish to remain for only six weeks may obtain from the Director of

the Session a certificate of such attendance, but university credit will not be given for six-weeks courses.

Students may register for courses aggregating eight credit hours or less.

PURPOSE

The primary purpose of the Summer Session is to meet the needs of teachers in the public schools who wish to spend a part of the summer vacation in study or investigation. The greater number of courses offered are designed particularly for high school teachers, supervising officers, and teachers of special subjects (art, music, manual training, domestic science, agriculture, etc.) and for college instructors, school supervisors, and principals who are working for advanced degrees. At the same time, students who may not fall within these groups are welcomed, and several courses of a more general nature are provided to meet their needs.

PREPARATION FOR STATE TEACHERS' CERTIFICATES

To teachers who desire to make thorough preparation for the State certificate examinations, the Summer Session offers marked advantages, especially in connection with the professional subjects. The following excerpt from Circular No. 53 of the Office of the State Superintendent of Public Instruction indicates the method of securing State certificates:

"Certificates of qualification issued by the Superintendent of Public Instruction shall be valid in every district of the State during the good behavior of the holder. Such certificates shall be granted only upon a public examination, complete in itself, under such regulations and by such examiners, as the Superintendent of Public Instruction shall prescribe and appoint. The holder of any State certificate, while he continues to teach, shall, annually, before entering upon his duties as a teacher, present his certificate to the county superintendent for registration. A fee of one dollar shall be charged therefor and covered into the institute fund."

The examination will be held July 22 to 25, 1913. Candidates for the "General Certificate" must take the examination in Springfield. The "State Elementary-School Certificate", the "State High-School Certificate", and the "State Supervisory Certificate" may be obtained by examinations held on the above dates at the University of Illinois, provided that at least fifteen applicants notify the State Superintendent, prior to June 10, 1913, of their wish to take the examination here. Further information concerning the examinations may be obtained by addressing Hon. F. G. Blair, State Superintendent of Public Instruction, Springfield, Illinois.

GRADUATE WORK IN THE SUMMER SESSION

During the past three years the Summer Session has placed increasing emphasis upon graduate courses leading to the master's degree. The various departments which are closely related to high school teaching and to educational administration have been selected as the centers of this emphasis. An attempt is made to vary the graduate offerings from year to year so that advanced students each year may find acceptable work in their chosen fields.

The normal requirement for the master's degree is full work of graduate grade, satisfactorily completed, through one year of residence. This means a residence of thirty-six weeks at the University. Qualified graduate students may fulfill this residence requirement in four summer sessions of eight weeks each and an additional four weeks' study at the University under the direction of the person in charge of the major work. Thus the student, by working at the University for one week before or after each session under the direction of the professor in charge of his major subject, may earn the master's degree in four summers.

In certain cases it will be possible for the graduate student to complete the last fourth of his residence requirement under a leave of absence. This privilege may be granted in the event that the student is able to take advantage of opportunities for research and investigation that are not afforded in the University community. Superintendents, principals, and class-room teachers frequently find it possible to carry on investigations in connection with their school work. There are, for example, numerous problems of school administration and of teaching for which the public school itself forms the only available "laboratory." Where the investigation of such problems is prosecuted with the coöperation of a university department, it may be possible to count the work toward the master's degree.

SUMMER COURSES IN LIBRARY TRAINING

Beginning Monday, June 17, 1912, and continuing for six weeks the Library School conducted a Summer Session to which were admitted only those actually employed as librarians or library assistants, or under definite appointment to serve in such positions. The curriculum is planned to meet especially the needs of workers in public libraries and in high school libraries of Illinois and no tuition fee is charged students entering from this State; students entering

from libraries in other states pay a tuition fee of \$12. The work is under the general direction of the faculty of the Library School.

FEES

A tuition fee of twelve dollars (\$12) is required of all students in regular attendance at the Session. This entitles one to admission to regular courses and to all special lectures. An extra laboratory fee is charged in some courses for materials used. Any single course may be taken for a fee of six dollars (\$6) and the laboratory fee, if there be any in connection with the course taken. A single course is understood to mean not more than two and one-half credit hours

SCHOLARSHIPS

By ruling of the Board of Trustees of the University, all high school teachers in Illinois, and all other teachers in the State who are qualified to matriculate in the University as regular students, are entitled to Summer Session scholarships, exempting them from payment of the tuition fee. To matriculate regularly in the University, one must either pass the entrance examinations, or present a certificate from an accredited high school or other evidence showing the completion of the requisite amount of preparatory work.

By a more recent resolution of the Board of Trustees, the scholarship privilege is extended to persons graduating from the Illinois State normal schools during the academic year preceding the Session in which the scholarship is desired, and to persons (otherwise qualified) who have not been teachers, but who are under contract to teach in the State during the coming year.

Application blanks for scholarships may be obtained from the Director.

REGISTRATION

Students will present themselves for registration on Monday, June 16, 1913.

DESCRIPTION OF COURSES—SUMMER SESSION OF 1912

EXPLANATION OF ABBREVIATIONS

"S," which is prefixed to each of the courses offered, means "summer," and is used to distinguish such courses from those of the same number offered during the regular college year.

The number in parenthesis after each course indicates the number of hours of credit given. For a definition of the term "credit hour," see page 257.

There are usually two lectures, recitations, or laboratory periods for each credit hour.

Unless otherwise stated each course extends through the eight weeks of the session.

The asterisk (*) indicates those courses for which graduate credit is granted. Only courses so marked count toward the master's degree. The credit in hours indicated for such courses has reference only to undergraduate students. Graduate students are not granted credit in terms of semester hours.

AGRICULTURE

(See also CHEMISTRY and ENTOMOLOGY.)

Assistant Professor Nolan, Mr. Smith, Mr. McDonald, Miss Evans

A. COMMON SCHOOL AGRICULTURE

S 9. ELEMENTARY AGRICULTURE.—For teachers in elementary and rural schools: materials and methods suitable for the introduction of agriculture into the common schools in such a way as to lead to improved practice, or to the study of technical agriculture in the higher schools. (2½).

Miss Evans

B. SECONDARY SCHOOL AGRICULTURE

Primarily for science teachers in high schools: general agriculture adapted to secondary schools, with emphasis on the subject-matter of agriculture, and with such reference to the methods of presentation as the needs of the class demand. The work is planned to continue throughout four summer sessions, the course in each session to cover the work of one year of high school agriculture.

1912 SESSION—FIRST YEAR HIGH SCHOOL AGRICULTURE

- S I. Domestic Animals and Their Products.—(a) History, development, and characteristics of the various breeds of live stock; type from the standpoint of breeder, feeder, and butcher; judging; methods suitable for the secondary school. (b) Beef, pork, and mutton production. (2½).

 Mr. Smith
- S 2. Forest, Orchard, and Garden Studies.—(a) General forestry; life history of trees; influences which affect the growth; tree societies and forest conditions; enemies of the forest; the farm

woodlot; origin, condition, and extent of woodlots; woodlot management; practical studies of given woodlots. (b) Locating, laying out, and planting the orchard; care of trees; picking, storing, and marketing fruit. (c) Laying out and planning home gardens; cultural requirements of standard vegetable crops; beautifying home and school grounds. (2½).

Assistant Professor Nolan

1913 SESSION—SECOND YEAR HIGH SCHOOL AGRICULTURE

(Given in 1912 also.)

- S 3. Agronomy—Farm Crops.—Grains; description and varieties; legumes, kinds, values, and uses; grasses, weeds, etc. (2½).

 Mr. McDonald
- S 4. Soil Elements and Crop Production.—Soil physics, origin, classification, moisture relations, and methods of handling; soil fertility, soil elements, and methods of soil improvement; crop production, planting, cultivating, and caring for staple crops. (2½).

 Mr. McDonald

1914 SESSION-THIRD YEAR HIGH SCHOOL AGRICULTURE

- S 5. FARM MECHANICS.— $(2\frac{1}{2})$.
- S 6. FARM MANAGEMENT.— $(2\frac{1}{2})$.

1915 SESSION-FOURTH YEAR HIGH SCHOOL AGRICULTURE

- S 7. PLANT AND ANIMAL IMPROVEMENT.—(21/2).
- S 8. Special Elective Agriculture.—(21/2).

ART AND DESIGN

Miss HILL

- S I. ELEMENTARY.—Form drawing from still life, cast, and nature; principles of outline and shading in pencil, charcoal, and crayon; lectures on the principles of perspective. (2). Miss Hill
- S 20. ART FOR THE COMMON SCHOOLS.—The planning and execution of work in the several divisions of common school art study; design; black-board drawing. (2).

 Miss Hill

BIOLOGY

(See BOTANY, ZOOLOGY, and ENTOMOLOGY.)

BOTANY

Assistant Professor Hottes, Mr. Lehenbauer
Note:—A number of informal meetings and excursions are

planned to afford students registered in botany an opportunity for gaining facility in the use of the analytical key of the Manual, and for becoming acquainted with the local flora.

S 21. PLANT PHYSIOLOGY.—The more important physiological processes of plants. Text: Coulter, Barnes, and Cowles, Vol. 2. A Text-book of Botany. (Laboratory Fee \$1.00.) (2½).

Assistant Professor Hottes, Mr. Lehenbauer

Prerequisite: Entrance credit in botany or its equivalent.

S 22. TECHNIQUE AND ELEMENTARY HISTOLOGY.—Methods of collecting and preserving material for the classroom; preparation of permanent slides and museum specimens; anatomy of the vegetative organs and its relation to their function. Text: Stevens' Plant Anatomy, 2d edition. (Laboratory Fee \$2.00.) (2½).

Assistant Professor Hottes

Prerequisite: Botany S-21 or its equivalent.

Courses for Graduates

*S 101. Cytology.—The influence of external agents on the cell; special subjects for investigation; reports; discussion of current literature and research results.

Assistant Professor Hottes

*S 102. Physiology.—The effects of external stimuli on growth and movement; reports; discussions of recent literature and research results.

Assistant Professor Hottes

CHEMISTRY

Assistant Professor Balke, Dr. Burgess, Dr. Derick, Dr. Mc-Carthy, Dr. Howe, Mr. Egan, Mr. Sears, Mr. Kamm

Note:—Graduate students whose major subject is not chemistry or agriculture may take for their graduate work S 5a, S 9, S 9a, S 9b, S 14, or S 13a. Students whose major subject is chemistry may take S 111.

S I. ELEMENTARY CHEMISTRY.—General inorganic chemistry; non-metallic elements. Illustrated lectures; recitations; laboratory. Alexander Smith's General Chemistry for Colleges. (5).

Assistant Professor Balke, Dr. McCarthy, Mr. Egan, Mr. Sears

- S ia and S ib. Inorganic Chemistry.—(For students who have had one year of high school chemistry, or inorganic chemistry for engineering students,) (4). Assistant Professor Balke
 - S 2. DESCRIPTIVE INORGANIC CHEMISTRY.—(Continuation of

S 1). The metallic elements, their compounds. Recitations; laboratory. Alexander Smith's General Chemistry for Colleges. (2).

Prerequisite: Chemistry I. Assistant Professor BALKE

- S 3. QUALITATIVE ANALYSIS.—Lectures; recitations; laboratory. Noyes and Smith's Qualitative Analysis. (3). Dr. McCarthy Prerequisite: Chemistry 1.
- *S 5a. ELEMENTARY QUANTITATIVE ANALYSIS.— Gravimetric and volumetric methods; the stoichiometrical relations; the fundamental laws of chemistry and their applications to the study of solutions. Lectures; recitations; laboratory. Lincoln and Walton's Exercises in Quantitative Analysis. (5).

 Dr. Burgess

Prerequisite: Chemistry 1, 3.

- *S 9 and 9a. Organic Chemistry.—The more typical and simple organic compounds; important classes of derivatives of carbon. Moore's Outline of Organic Chemistry; Noyes' Organic Chemistry for the Laboratory. (5). Dr. Derick, Mr. Kamm Prerequisite: Chemistry 2. 3.
- S 9b. Organic Synthesis.—Continuation of S. 9a. Text: Noyes' Organic Chemistry for the Laboratory. (2).

Dr. Derick, Mr. Kamm

Prerequisite: S 9a.

*S 14. ORGANIC CHEMISTRY (advanced).—Lectures; recitations.
Noyes' Organic Chemistry. (3). Dr. Derick
Prerequisite: Chemistry S-0 or equivalent.

S II and *S III. RESEARCH.—Inorganic, physical, organic, or analytical chemistry.

Assistant Professor Balke, Dr. Burgess, Dr. Derick, Dr. Mc-Carthy, Dr. Howe

(Subject to approval of Graduate School Faculty.)

- *S 13a. AGRICULTURAL ANALYSIS.—Gravimetric determination and separation of the more important constituents of soils, fertilizers, and agricultural products; chemical analysis of food stuffs, such as grains, fodders, and dairy products. Lincoln and Walton's Elementary Exercises in Quantitative Analysis. (5). Dr. Burgess
- S 15. Physiological Chemistry.—Food nutrients, the body tissues and fluids; the urine, both normal and pathological; the processes which take place in the animal body. Lectures; demonstrations; conferences; practical work. (Open to both graduates

and undergraduates.) Hammarsten's Text Book of Physiological Chemistry; Hawk's Practical Physiological Chemistry. (5).

Dr. Howe

Prerequisite: Two years' work in chemistry.

S 17. TEACHERS' COURSE.—(1). Assistant Professor Balke

GENERAL ENGINEERING DRAWING

Mr. PORTER

- S I. ELEMENTS OF DRAFTING.—Freehand and mechanical lettering; practice in the use of instruments on standard set of working drawing plates; tracing, machine sketching, isometric and oblique projection, and perspective. (Required of all engineering students.) Miller's Mechanical Drafting. (4).

 Mr. Porter
- S 2. Descriptive Geometry.—Problems relating to the point, line, and plane; the properties of surfaces; intersections and developments of surfaces. Miller's Descriptive Geometry. (4).

Mr. Porter

ECONOMICS

(Including ACCOUNTANCY)

Professor Robinson, Mr. Martin, Mr. Dowrie

S 2. Principles of Economics.—The general principles of economics with special reference to the experience of the United States. Seager's *Economics* (Briefer Course). (The equivalent of Economics 2.) (2½).

Prerequisite: Two years of university credit.

S 6. Business Organization.—The adaptation of organization to the nature of business enterprises; the characteristics and relative advantages of the individual proprietorship, partnership, and the corporation; organization for operating purposes and its effect on efficiency. (Open only to teachers of commercial branches. See also Accountancy S 2.) Robinson's Business Organization and Management. (2½).

Professor Robinson

Prerequisite: Economics S 2 or its equivalent.

*S 116. PRESENT DAY SOCIAL AND ECONOMIC PROBLEMS.— Trusts and the tariff; the regulation of railways and public service corporations; money, prices, and the cost of living; the rate of wages and the conditions of labor in the great industries. (For teachers of economics, political science, history, and commerce.) (2½). Professor Robinson

ACCOUNTANCY

S 2. Principles of Accountancy.—The accounting for various types of business organization, such as the partnership, corporation, etc.; the designing of accounting systems; the treatment of bad debts, goodwill, depreciation, suspense, secret reserves, and the like. Open to teachers of bookkeeping and those who have had the first semester of Accountancy I or its equivalent. (2½).

Mr. MARIIN

EDUCATION AND PSYCHOLOGY

Professor Bagley, Assistant Professor Hollister, Mr. Miller, Mr. Rugg

(Courses S 2, S 3, S 9, and S 20 are granted graduate credit.)

- S I. Principles of Teaching.—The function of education; formal and informal education; fundamental principles of physical and mental development and their relation to the art of teaching; a brief survey of standard methods of instruction; the leading principles of school hygiene. (2½).

 Mr. Miller
- *S 2. EDUCATIONAL VALUES AND METHODS.—The criterion of function; classification of functions; criteria of value; an examination of the principal subjects of the school curriculum with especial reference to the relation of standard methods of organization and teaching to the principles of function and value. (2).

Professor Bagley

- *S 3. School Organization and Administration.—The historical background of the American public school system; units of administration; supervision; teachers' qualifications; community adjustments; the administration of instruction. Lectures; reading; reports. (2½).

 Assistant Professor Hollister
- S 4. High School Administration.—Organization and development of the American high school; comparison with secondary schools of Europe; program of studies, its underlying principles and the means of making it effective; the school as a social group. Hollister's High School Administration. (2½).

Assistant Professor Hollister

S 6. HISTORY OF EDUCATION.—The development of educational

theory and practice in their relation to the history of civilization. Monroe's History of Education, Brief Course. (2½). Mr. Rugg

- *S 9. Educational Psychology.—The biological aspects of learning; the analysis of the mental processes involved in learning; the economy and technique of learning; application of methods and results to the problems of the schoolroom. Colvin's Learning Process. (2).

 Professor Bagley
- *S 20. Theory of Supervision.—Typical problems in administration and teaching. (1). Professor Bagley

ENGLISH

Professor Clapp, Assistant Professor Gray, Assistant Professor Paul, Mr. Halliday, Dr. A. J. Tieje, Mr. R. E. Tieje, Mr. Buchen

A .- LITERATURE AND LANGUAGE

S 1a. Introductory Course.—English literature to Milton. (This course with S 1b is equivalent to English 1 as described in the general Description of Courses, in Part III. The two parts may be taken in successive summers, or simultaneously.) Cunliffe's Century Readings. (2).

Mr. R. E. Tieje

Prerequisite: Three years at an approved high school.

S 1b. Introductory Course.—English literature from Milton to Burns. (This course with S 1a is equivalent to English 1 as described in the general Description of Courses, in Part III.) Cunliffe's Century Readings. (2). Dr. A. J. Tieje

Prerequisite: Three years at an approved high school.

S 16. AMERICAN LITERATURE.—Page's Chief American Poets.

(2). Assistant Professor PAUL

Prerequisite: English I and 2 or an equivalent.

S 34. NINETEENTH CENTURY ESSAYISTS AND THE GROWTH OF THE MAGAZINES.—(2). Professor CLAPP

Prerequisite: Two years of college English or an equivalent.

S 15. Teachers' Course.—Outlining a course in English; typical classics used in high schools; the correcting of themes; present tendencies in English teaching. (2).

Assistant Professor PAUL

Prerequisite: The consent of the instructor.

*S. 5. ELIZABETHAN DRAMA. (2). Assistant Professor Gray Prerequisite: Three years of college English or an equivalent.

*S 37. The Novel in the Eighteenth Century. (2).

Professor CLAPP

Prerequisite: Three years of college English or an equivalent.
*S 8b. OLD ENGLISH (ANGLO-SAXON) POETRY.—Beowulf.—

Wyatt's Beowulf. (3) Dr. A. J. Tieje

Processiste: Course 82 or an equivalent introduction to Old

Prerequisite: Course 8a or an equivalent introduction to Old English.

B .- RHETORIC

I. Composition

S Ia. RHETORIC AND THEMES.—(This course is equivalent to the first semester of Rhetoric I as described in the general Description of Courses, in Part III.) Woolley's Handbook of Composition; Scott and Denney's Paragraph Writing. (3).

Mr. Buchen, Mr. R. E. Tieje

Prerequisite: Three years at an approved high school.

S ib. Rhetoric and Themes.—(This course is equivalent to the second semester of Rhetoric I as described in the general Description of Courses, in Part III.) Scott and Denney's Paragraph Writing. (3).

Mr. Buchen

Prerequisite: Rhetoric 1a or an equivalent.

S 3. Advanced Composition.—Short themes with an occasional long theme. (2). Assistant Professor Gray Prerequisite: Rhetoric 1 or an equivalent.

II. Public Speaking

S 7. Public Speaking.—Reading aloud and oral composition; 1-ctures and individual instruction. (This course is the equivalent of the second semester of Rhetoric 7 as described in the general Description of Courses, in Part III.) (2). Mr. Halliday

Prerequisite: Rhetoric I and the first semester of Rhetoric 7 or an equivalent.

S 4. The Art of Debate.—Brief writing and extemporaneous presentation of arguments in formal debate. Foster's *Argumentation and Debating*. (1).

Mr. HALLIDAY

Prerequisite: Rhetoric 7 or an equivalent.

S 8. Interpretative Reading.—English classics selected from among those most frequently taught in the high school. (1).

Prerequisite: Rhetoric 7 or an equivalent.

ENTOMOLOGY

Assistant Professor Folsom, Mr. Glasgow

- S I. GENERAL FIELD AND LABORATORY COURSE.—The essential facts of entomology, emphasizing those of economic importance. Lectures; laboratory studies; field observations. (For high school teachers.) Folsom's Entomology with Reference to Its Biological and Economic Aspects. (2½). Assistant Professor Folsom
 - S 2. Advanced Course.—(21/2). Assistant Professor Folsom
- S 3. Economic Entomology.—Common injurious insects in all their stages of development; their injurious activities; approved methods of control. Lectures; laboratory; field work. (Equivalent to the economic entomology [Entomology 4] required of agricultural students.) (2½). Assistant Professor Folsom

FRENCH

Professor OLIVER

- S I. BEGINNERS' COURSE.—Pronunciation; grammar; composition; reading of easy texts. Aldrich and Foster's Foundations of French; Super's French Reader. (4). Professor OLIVER
- S 2. READING OF MODERN FRENCH.—Rapid reading of modern authors; composition; conversation. Everyday French, Bronson; Colomba, Mérimée; Pêcheur d'Islande, Loti; La Mare au Diable, George Sand; Bataille de Dames, Scribe et Legouvé; Mademoiselle de la Seiglière, Sandeau. (2). Professor OLIVER

Prerequisite: French I, or the equivalent.

S 4. ADVANCED COMPOSITION and CONVERSATION.—(1).

Professor OLIVER

Prerequisite: Two years' university work in French, or the equivalent.

S 125. Seminar.—Graduate work in the Romance languages.

Professor Oliver

GERMAN

Professor Handschin, Mr. Barto, Mr. Held, Mr. Todd

S i. Beginners' Course.—(4).

Professor Handschin, Mr. Held

S 2. Intermediate Course. (3). Mr. Barto Prerequisite: German 1, or the equivalent.

S 3. Prose Reading.—Reading of narrative prose; sight translation; composition. (3). Mr. Todd

Prerequisite: German 3, or the equivalent.

S 4. READINGS FROM THE CLASSICS.—Lessing's Minna von Barnhelm, Schiller's Jungfrau von Orleans. (3). Mr. Barto Prerequisite: German 4. or the equivalent.

Note: Students securing a grade of 85 or more and doing additional work assigned by the instructor may supplement the work of S 2, S 3, or S 4, making them equivalent to courses 3, 4, or 5 respectively, the additional credit to be indicated at registration.

S 5. Prose Composition.—Translation of ordinary prose into German; study of idiomatic constructions; practice in free composition in German. (2).

Mr. Held

Prerequisite: Two years' university work in German, or the equivalent.

S 6. Modern Fiction.—Reading of modern authors, such as Keller, Meyer, and Storm. (2).

Mr. Todd

Prerequisite: Two years' university work in German, or the equivalent.

S 9. Teachers' Course.—Place, aim, and scope of the study of German in the high school; discussion of methods and the chief difficulties in teaching German. Observation work in the beginners' course. (1).

Professor Handschin

Prerequisite: Experience in teaching German, or three years' university work in German, or the equivalent.

S II. GOETHE'S FAUST.—Critical reading of the first part of Faust. (1½). Professor Handschin

Prerequisite: Three years' university work in German, or the equivalent.

HISTORY

Professor Ford, Professor McCormac

- S 1a. Medieval European History to 1300.—Introductory course corresponding, for the period covered, to History 1. (The course offered in 1913 will probably cover the period from 1300 to 1648.) (2½).

 Professor Ford
- S 3b. AMERICAN HISTORY, 1783-1860.—A part of the usual introductory course in American history. (The course offered in

1913 will probably cover the recent history of the United States.) (2½). Professor McCormac

S 13. THE RISE OF THE AMERICAN REPUBLIC.—The colonies in the eighteenth century and their development into the American nation; particular attention to the years following 1748.

Professor McCormac

Prerequisite: History 3.

(For advanced work in European history see Political Science S2.)

LATIN

Professor Barton, Associate Professor Oldfather

- S I. TERENCE.—The language, verse, and dramatic technique of two plays of Terence. (2). Associate Professor OLDFATHER
- S 2. SATIRE.—A large part of the Satires of Horace; selections from Juvenal. Lectures on the history of satire and connected problems in Latin literature. (1½).

Associate Professor Oldfather

- S 106. Introduction to Latin Comedy.—Lectures; interpretations; assigned readings. (1½). Associate Professor Oldfather
- S 3. Teachers' Course.—The position of Latin in the school program; methods of instruction; the essentials of Latin instruction in the high school; books and equipment. (1½).

Professor BARTON

LIBRARY SCIENCE

Miss Curtis, Miss Armstrong, Miss Abel

Note:—The courses indicated covered six weeks and received no university credit. Only people employed in libraries were admitted.

- S I. CLASSIFICATION; CATALOGING; BOOK NUMBERS.—Five times a week.
- S 2. Reference Work.—The selection and use of reference books suited to the small public library. Twice a week.
- S 3. Selection of Books.—Principles of book selection and lectures on subject bibliography. Twice a week.
- S 4. WORK WITH CHILDREN.—Selection and discussion of children's books; administration of children's libraries; classification and cataloging. Twice a week.

- S 5. ORDER AND ACCESSION; LOAN DEPARTMENT; BINDING AND REPAIR. Twice a week.
 - S 6. LIBRARY ADMINISTRATION AND EXTENSION. Twice a week.

MANUAL TRAINING

Mr. Park, Mr. Duncan

(See also Art and Design, General Engineering Drawing, and Mechanical Engineering.)

- S I. Shop Administration.—History and theory of industrial education; typical schools and systems of manual training leading to a better understanding of the aims and methods employed for the promotion of industrial education; organization of work; equipments and materials. (2½).

 Mr. Park
- S 2. Woodworking.—(A course for teachers in the 7th and 8th Grades and high schools.) Tools—uses, names of parts, adjustments, care, how to sharpen; the making of important joints used in wood construction; the designing and making of arts and crafts furniture; notebook work, covering talks, papers, problems; work at the bench. (3).

 Mr. Park, Mr. Duncan

MATHEMATICS

Assistant Professor Emch, Dr. Wahlin, Mr. Carscallen, Mr. Barnhart, Dr. Denton

- S 2. Advanced Algebra.—(Equivalent to Mathematics 2.) Algebraic reductions; variables and functions; equations; inequalities; mathematical induction; variation; progressions; complex numbers; limits; infinite series; undetermined coefficients. (Theory of equations given with Math. S6.) Rietz and Crathorne's College Algebra. (3).

 Dr. Wahlin
- S 4. Plane Trigonometry.—(Equivalent to Mathematics 4.) Rothrock's Elements of Plane and Spherical Trigonometry. (2).

 Assistant Professor Emch
- S 6. ANALYTICAL GEOMETRY.—(Equivalent to Mathematics 6.) Plane and solid analytic geometry; theory of equations; graphs. Rigg's Analytic Geometry. (5).

 Mr. Barnhart
- S 7. DIFFERENTIAL CALCULUS.—(Equivalent to Mathematics 7.) Townsend and Goodenough's Essentials of Calculus. (5)

 Dr. Denton

- S 9. Integral Calculus.—(Equivalent to Mathematics 9.) Townsend and Goodenough's Essentials of Calculus. Two sections.

 (3). Mr. Carscallen
- *S 16. DIFFERENTIAL EQUATIONS.—(Equivalent to Mathematics 16.) General linear equations with constant coefficients; special forms of differential equations of higher order; integration in series. (3).

 Dr. Wahlin
- *S 27. Projective Geometry.—(Equivalent to Mathematics 27.) Fundamental concepts; anharmonic ratio; projective pencils and ranges; projective transformation and groups; conics and quadric surfaces; pencils and ranges of conics; quadratic transformations and projective theory of cubes; applications in mechanics. (3).

 Assistant Professor Emch

MECHANICAL ENGINEERING

(See also Manual Training.)

Mr. Duncan, Mr. Scroggin

- S I. PATTERN-SHOP.—The care and use of tools; the construction of patterns, core-boxes, and the use of machines such as are found in modern pattern-shops.

 Mr. Duncan
- S 3. MACHINE-SHOP.—Chipping and filing; elementary work on lathe, drill press, shaper, planer, and grinding machine. (2½).

 Mr. Scroggin
- S 4. Advanced Machine-Shop.—The use of milling machine, screw machine, gear cutter, boring mill, and turret lathe; erecting and testing machines and gas engines. (2½). Mr. Scroggin

Note: Lectures on tools and shop processes are given frequently, and inspection trips to shops in the local and adjoining towns are made in connection with all classes in shop practice. A student may finish one full year's work in the shop during the summer term.

MECHANICS, THEORETICAL AND APPLIED

Mr. Noerenberg, Mr. Ensign, Mr. Farwell

S 7. Analytical Mechanics—The first half of Analytical Mechanics as given in Maurer's Technical Mechanics. Daily; (3).

Mr. Noerenberg

Prerequisite: Mathematics 7; registration in Mathematics 9.

S 8. Analytical Mechanics.—The second half of Analytical Mechanics as given in Maurer's Technical Mechanics. Daily; (2½).

Mr. Ensign

Prerequisite: Mathematics 9; T. and A. M. 7.

S 9. Resistance of Materials.—Elementary mechanics of materials; experiments and investigations in the materials laboratory; problems in ordinary engineering practice. (Equivalent to T. and A. M. 9.) Merriman's Mechanics of Materials. Five one-hour and two two-hour periods a week; (3½). Mr. Ensign, Mr. Farwell

Prerequisite: T. and A. M. 7; registration in T. and A. M. 8.

S 10. HYDRAULICS.—The pressure and the flow of water and its utilization as motive power; the observation and measurement of pressure, velocity, and flow; power and efficiency; the determination of experimental coefficients. Recitations; laboratory. Text: Hoskin's Hydraulics. Four one-hour and two two-hour periods a week; (3).

Mr. FARWELL

Prerequisite: T. and A. M. 8.

Note: With the opening of the hydraulic laboratory for the Summer Session, arrangements may be made to use its facilities for special experimental work.

S 14. ELEMENTS OF MECHANICS.—The principles of kinematics, kinetics, and statics, and their application. Morley's *Mechanics for Engineers*. (For architects and others who have not taken the calculus.) (4).

Mr. Noerenberg

Prerequisite: Mathematics 2, 4.

MUSIC

Professor Mills

S I. THEORY OF MUSIC.—Eartraining, intervals, triads, chords of the seventh and ninth, and harmonization of melodies by means of the principal triads. Original melody writing. Professor MILLS

S 2. HISTORY OF MUSIC.—From the Christian era to the present time.

Professor Mills

S 3. MUSICAL FORM, ANALYSIS, AND APPRECIATION.

Professor Mills

S 4. Advanced Harmony and Counterpoint.—Modulation; chromatic chords; elements of counterpoint. Professor Mills

S 5. Chorus.— Professor Mills

PHYSICAL TRAINING FOR MEN

Director HANA

- S I. GYMNASIUM EXERCISE.—Calisthentic drills and elementary heavy apparatus work.

 Mr. Hana
 - S 2. GYMNASIUM PRACTICE.—Advanced heavy apparatus work.
 - S 3. SWIMMING. Mr. HANA

PHYSICAL TRAINING FOR WOMEN

Miss Brooks

S I. PRACTICE IN FREE GYMNASTICS, LIGHT APPARATUS, FOLK AND GYMNASTIC DANCING, TENNIS, AND OTHER GAMES. Miss BROOKS S 2. SWIMMING. Miss BROOKS

PHYSICS

Assistant Professor Knipp, Assistant Professor Schulz, Mr. Smith, Mr. Jones, Mr. Anderson

S 2a. GENERAL PHYSICS.—Wave motion, sound, and light. Lectures; experimental demonstrations; recitations. (1½).

Assistant Professor Schulz, Mr. Anderson

Prerequisites: Plane geometry; high school algebra; plane trigonometry desired.

S 2b. Introductory Laboratory Physics.—(Laboratory course in wave motion, sound, and light, to accompany S 2a.) Schulz's Laboratory Manual. (1½).

Assistant Professor Schulz, Mr. Jones

Prerequisite: Same as for S 2a.

S 15. ELECTRICITY AND MAGNETISM.—Laboratory; discussions; recitations. Cahart and Patterson's *Electricity and Magnetism*. (1½). Mr. Smith

Prerequisite: A course in general physics.

S 18. Teachers' Course.—Practical problems involved in teaching elementary physics; methods of conducting lectures and laboratory work with special reference to physical manipulation. Notes by Assistant Professor F. R. Watson. (1½). Mr. SMITH

Prerequisite: A course in general physics, or teaching experience in physics.

S 20b. Light.—Spectroscopy. Laboratory; lectures on the theory and use of prism, grating, and echelon spectroscopes, and

interferometers. References:—Baly's Spectroscopy and Wood's Physical Optics. Assistant Professor Schulz

Prerequisite: Consult instructor.

S 4. Advanced Electrical and Magnetic Measurements.—Laboratory; lectures; assigned reading; reports. Carhart and Patterson's *Electricity and Magnetism*. (1½). Mr. Smite

Prerequisites: A course in general physics and calculus.

S 21a. ELECTRICAL DISCHARGE IN VACUUM TUBES.—Experimental lectures; assigned reading; reports. References:—McClung's Conduction of Electricity Through Gases. (1)

Assistant Professor Knipp, Mr. Anderson

Prerequisite: A course in general physics.

S 21b. Conduction of Electricity Through Gases.—Advanced laboratory; a number of the more classical experiments, including a determination of v and e/m of the various carriers of electricity. References:—Thomson's Conduction of Electricity Through Gases, and current literature. (1).

Assistant Professor Knipp, Mr. Anderson

Prerequisites: A course in general physics and calculus.

S 131. Investigation of Special Problems.—Advanced laboratory; special problems. (1 or 2).

Assistant Professors KNIPP and SCHULZ

S 133. Seminar and Thesis.—Once or twice a week.

Assistant Professors KNIPP and SCHULZ

PHYSIOGRAPHY

Mr. Decker

- S I. COURSE FOR TEACHERS.—The most common topographic forms met with in the Mississippi Valley and in other sections in the United States; the processes which have brought them into existence; and their effect on the life which they environ. Lectures; laboratory; field trips. (Laboratory fee \$1.) (4). Mr. DECKER
- S 2. Advanced Physiography.—Selected physiographic areas and their life relations; the local environment as the initial problem. Lectures; laboratory; field trips. (Laboratory fee \$1.) (2½).

Mr. Decker

POLITICAL SCIENCE

Professor Geiser

S I. AMERICAN NATIONAL GOVERNMENT.—The national govern-

ment of the United States: its origin, development, and structure; relations between the national and state governments. (For teachers of history and civics.) (2½). Professor Geiser

*S 2. Modern European Governments.—The governments of western Europe, with special attention to France and Germany; the national political systems of France, Germany, Switzerland, and Belgium. Lectures; assigned readings; reports. (For advanced undergraduates and graduate students.) (2½). Professor Geiser

RHETORIC

(See English.)

SOCIOLOGY

Professor HAVES

- S I. PRINCIPLES OF SOCIOLOGY AND THEIR APPLICATION TO LIVING PROBLEMS.—(2½)

 Professor Hayes
- S 3. Social Evolution.—The customs, practices, and ideas of different peoples, savage, barbarous, and civilized, to reveal the method of progress. (2½).

 Professor Hayes

ZOOLOGY

Professor Ward, Mr. Coutant, Mr. Cort

- S 1. ELEMENTARY GENERAL ZOOLOGY.—General morphology, physiology, ecology, economic relations, suited to the needs of the general student and of teachers in secondary schools. (Laboratory fee, \$2.00.) (4).

 Professor WARD, Mr. CORT
- S 21. Introduction to Zoological Research.—Investigation of topics, usually repeating the work of earlier investigators; the morphology, life history, or reciprocal relations of invertebrate forms. Laboratory; conferences; assigned reading. (Laboratory fee, \$2.00). (2 to 5).
- S 27. MICROSCOPICAL TECHNIQUE.—Approved methods of preserving and mounting animals for microscopical study; talks and discussions; the choice of methods which can be used to advantage in laboratories with only a moderate equipment; practice in narcotization, killing, fixing, hardening, clearing, infiltrating, embedding in paraffine or celloidin, sectioning, and staining; methods for making both temporary and permanent preparations. Laboratory. (Laboratory fee, \$2.00.) (2½).

 Mr. COUTANT

THE COLLEGE OF LAW

AIM OF THE COLLEGE

It is the aim of the College to furnish its students with such a training as will best fit them for the practice of the law. A mere knowledge of what the law is will not suffice. The student must learn the reasons which have made it what it is. These can be mastered only by studying the law in the light of its historical development. No special course is offered on the history of the law; but it is sought to present each subject so that the principles peculiar to it may be historically understood. It is also the aim of the College that the courses shall be so presented as to familiarize the student with legal methods of reasoning and to equip him with legal habits of thought. It is believed that the case method of instruction, properly understood and applied, is best adapted to accomplish these objects.

ADMISSION

With the exception of special students as defined below, applicants for admission to the College of Law must have obtained credits for one year's work in another college of this University or of some other institution of recognized standing; provided, however, that an applicant who lacks not more than four semester hours of such credit may be admitted on condition of making up the deficiency before beginning the second year of law study.

SUGGESTED PREPARATORY COURSES

Below is given a schedule of studies recommended by the faculty of the College of Law for students taking one year in the College of Literature and Arts to meet the requirement for admission to the College of Law. In addition a schedule of studies covering two years in the Literature and Arts course is added for the guidance of those who may be able to take two years of pre-legal work.

One-Year Course in Preparation for Law

FIRST SEMESTER	SECOND SEMESTER
Hours Hours 1	Hours Hours Hours Physical Training 1 1 Rhetoric 3 Foreign language 4 History 1 3 English 1 4 17

The courses in military and physical training, Rhetoric 1, and eight hours in foreign language are required of all freshmen in the College of Literature and Arts. Latin is strongly urged for all students intending to study law; but those who have not had the necessary preparation for college courses in Latin should substitute a modern language, preferably French or German.

Two-Year Course in Preparation for Law

Students who are able to give two years to preparatory work are recommended to take the schedule given below.

FIRST SEMESTER Military 2	YEAR SECOND SEMESTER Military 1 & 2 Hours Physical Training 1 1 Rhetoric 1 3 Foreign language 4 History 11 3 English 1 4
17	17
SECOND Military 2	YEAR 1 Science or language 3 or 4 Political Science 3 3 Economics 3 3 Philosophy 1 3 History 3 3
16 or 17	16 or 17

COMBINED COURSE IN LITERATURE AND ARTS AND LAW

By the proper selection of his studies it is possible for a prospective law student to take both the degree in arts and the degree in law in six years. (See page 144.)

SPECIAL STUDENTS

Students twenty-one years of age, or over, who are not able to satisfy the regular requirements for admission, but who have had a preliminary education which would entitle them to take the Illinois State Bar Examination, may, by permission of the faculty, be admitted without examination as special students, but no such student may be a candidate for a degree. In exceptional cases, other persons may, by permission of the faculty, be admitted as special students.

No one may continue as a special student for more than two years except by special permission of the faculty, application for which should be made through the Dean.

ADVANCED STANDING

After matriculating, an applicant may obtain advanced standing (1) by transfer of credits from another accredited law school upon presentation of a certificate of honorable dismissal and a certified record of work done; or (2) by examination taken at the time of entrance to the College of Law in first year subjects only.

INSTRUCTION

Courses in substantive law are taught by analyzing and comparing cases which have been carefully selected and arranged in case books. References, however, are constantly made to leading text books, and they are recommended and in certain courses required for collateral reading.

Courses in the law of procedure are taught from the leading text books, supplemented by the examination of statutes and adjudged cases, and students are brought into as close touch as possible with actual practice, both by the method of instruction in these courses and by means of the Moot Court.

The instruction gives a thorough training in the common law, which constitutes a proper foundation for the practice of law in any state.

The faculty of the College is impressed with the idea that a state university should teach the law of the state which supports the school, and to that end, without neglecting the general principles that lie at the foundation of the common law, especial attention is given in all courses to grounding the student thoroughly in the law as

determined by the courts of Illinois. Throughout the entire course, the students are required to consult frequently Illinois decisions and statutes, which are made the basis of discussion in class by students and instructor. In the Moot Court and through the course in Illinois procedure, especial attention is paid to the rules of pleading and practice that obtain in the State of Illinois.

MOOT COURT

The sessions of the Moot Court are held every Monday afternoon of the first semester for the third year class; every Tuesday afternoon of the first semester for the second year class; and every Monday afternoon of the second semester for the second and third year classes together. The Court is presided over by the Dean, who has had an experience of twenty-five years as a judge of the Circuit and Appellate Courts of Illinois. Attendance is compulsory with second and third year classes. It is the purpose to have the workings of the Moot Court parallel proceedings in the various courts of the State. Students are trained in the preparation of legal documents and in the trial of cases, both civil and criminal.

The Moot Court Bulletin is published every other week of the college year, and in this are printed the statements of cases, the briefs of opposing counsel, and the opinions of the presiding judge.

SPECIAL LECTURES

Addresses by prominent members of the bench and bar on practical features of the law are given from time to time during the year. In 1911-12 two courses of lectures were given by the following: Nathan William MacChesney, A.B., LL.B., of the Chicago Bar

B. M. Chiperfield, of the Illinois Bar

THE LAW LIBRARY

The Law Library contains 14,000 volumes, including all the reports of the courts of last resort of all the states; the United States Supreme, Circuit, and District Court reports; the English reports; the statutes of the various states; digests of the state reports; several sets of special reports, such as the American Reports, American State Reports, American Decisions, and Lawyers' Reports Annotated; all the great Encyclopedias and Digests; and a carefully selected collection of text books and legal periodicals.

The library is growing rapidly, new sets of reports and new

digests, text books, and periodicals being continually added, together with the continuations of the reports and periodicals already in the library.

REQUIREMENTS FOR GRADUATION AND DEGREES

The degree of Bachelor of Laws will be granted to all regularly matriculated students who complete all the courses in the first year list; courses 8, 10, 11, 12, 18, 20, 26 (second year); courses 4a, 15, 17, 19, 21, 22, 26 (third year); and enough of the other courses offered to make 84 hours of credit.

DEGREE OF DOCTOR OF LAW

The degree of Doctor of Law (J. D.) will be granted to students who comply with the following conditions:

- I. Complete the work required for the degree of Bachelor of Laws.
- 2. Secure a bachelor's degree in arts or science at least two academic years prior to the completion of the course for the degree of Bachelor of Laws.
 - 3. Obtain a minimum average grade of 85 in the College of Law.
- 4. Present a thesis approved by the faculty of the College of Law, in accordance with the requirement hereinafter set out.

Students who receive the A.B. degree after registering in the College of Law, and, by counting courses in law toward both the degree of A.B. and the degree of LL.B., take both degrees in six years, must during the first year in the College of Law take four hours in history or the social sciences.

Rules concerning Theses

The following are the rules concerning theses presented for the degree of Doctor of Law: I. The thesis must be on a subject approved by the Dean of the College of Law after consultation with him as to the proposed method of treatment. 2. The subject of the thesis must be filed with the Secretary on or before December 20. 3. The thesis must be typewritten on paper 8½xII inches, with at least one inch margin at the top, bottom, and sides. 4. It should contain not less than 4,000 nor more than 10,000 words. 5. In citing cases, names of parties, volume, page, and year should be given. Citations are not to be counted in determining the number of words. The student is expected to exhaust the cases decided during the period covered by his thesis, and to state the period for

which the cases have been examined. 6. The thesis must be delivered to the Secretary of the faculty not later than May I.

The thesis may then be returned to the writer for revision, or if unsatisfactory, it may be rejected altogether. If returned for revision it may be rejected after being revised. If accepted it will be filed in the Law Library, and may be published by the College of Law or by the University.

CERTIFICATE FOR ADMISSION TO THE ILLINOIS STATE BAR EXAMINATION

Any student, although not a candidate for a law degree, is, if he has taken the following courses: 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 18, 20, 26 (2nd and 3rd year), 4a, 15, 17, 19, 21, and 22, entitled to a certificate thereof from the University, which certificate satisfies the requirements as to legal studies of Rule 39 of the Supreme Court of the State of Illinois, relative to admission to the bar.

As to other requirements for admission to the bar in the State of Illinois, see Rule 39, in volume 204 of the Illinois Reports, at bage 20.

COURSE LEADING TO THE DEGREE OF LL.B.

FIRST YEAR

FIRST SEMESTER: Contracts (Law 1); Torts (Law 2); Criminal Law (Law 5); Personal Property (Law 6).

SECOND SEMESTER: Contracts (Law 1); Torts (Law 2); Real Property (Law 3); Common Law Pleading (Law 4); Domestic Relations (Law 7).

SECOND YEAR

FIRST SEMESTER: Evidence (Law 8); Real Property (Law 10); Agency (Law 11); Equity (Law 12); Damages (Law 13); Moot Court (Law 26); Conveyancing (Law 29); Public International Law (Law 30).

SECOND SEMESTER: Evidence (Law 8); Equity (Law 12); Wills (Law 18); Equity Pleading (Law 20); Moot Court (Law 26); Sales (Law 9); Carriers (Law 14); Future Interests in Property (Law 27); Insurance (Law 28); Quasi-Contracts (Law 32); Public Service Companies (Law 34).

THIRD YEAR

FIRST SEMESTER: Illinois Procedure (Law 4a); Bills and Notes

(Law 15); Private Corporations (Law 17); Partnership (Law 19); Constitutional Law (a) (Law 22); Moot Court (Law 26); Municipal Corporations (Law 24).

SECOND SEMESTER: Private Corporations (Law 17); Suretyship (Law 21); Constitutional Law (b) (Law 33); Moot Court (Law 26); Mortgages and the Recording Acts (Law 23); Bankruptcy (Law 25); Conflict of Laws (Law 31).

PRIVILEGES OF STUDENTS

The students of the College of Law may take, without extra fee, courses of study in other departments of the University, provided they secure the approval of the Dean of the College of Law. Especial attention is called to the courses in public speaking and debate, and to the courses in history, economics, and political science in the College of Literature and Arts and the Graduate School.

Law students are entitled to library privileges in the general library as well as in the law library, and possess in general all the rights and privileges enjoyed by other students of the University.

LAW CLUBS

The law students have organized voluntary associations for the discussion of interesting and important questions of law, and for the trial of hypothetical cases of their own choice. Four of these societies are active at present. They are known as the Van Twiller, Witenagemot, John Marshall, and Fuller club courts.

SCHOLARSHIP PRIZES

Eight scholarship prizes are open to matriculated students of the first and second years, to be awarded at the end of each year, four of \$50 each and four of \$25 each.

THE SCHOOL OF PHARMACY

For the faculty of the School of Pharmacy, see page 42.

HISTORY

The School of Pharmacy was originally the Chicago College of Pharmacy and was incorporated under that name September 5, 1859. Prior to that time there were but three schools of pharmacy in the country, and these were located in the eastern states.

While the primary object of the institution was to provide instruction in the science and art of pharmacy, other functions were developed. Thus, a code of ethics was early adopted by the members; successful efforts were made to bring about better relations between pharmacists and physicians; the pioneer pharmaceutical library was established; and for eighteen years beginning with 1868 a monthly journal, *The Pharmacist*—the first of its kind in the West—was published.

In October, 1859, the first course of lectures was instituted, occupying three evenings a week for a period of six months. Of the first class, but two students were graduated in 1861. The war caused a suspension of the teaching, and the school was not reopened until 1870. The great fire of 1871 destroyed the equipment, but pharmacists throughout Europe and America extended help to the institution, furnishing a library and an outfit of apparatus, which became the nucleus of the present equipment. In 1872 the instruction was resumed for the second time and has since continued without interruption.

In 1880 the members and graduates of the College took an active part in the formation of the Illinois Pharmaceutical Association, which in the following year secured the passage of the pharmacy law.

The twenty-fifth anniversary of the founding of the College was signalized by the removal of the College to a larger building at 465

State street. Up to this time instruction had been given mainly by means of lectures, laboratory work being entirely optional. Laboratory courses in pharmacy, chemistry, and vegetable histology were now made obligatory. A laboratory devoted entirely to prescription compounding was established in 1892.

The College was formally united with the University May I, 1896, becoming the technical School of Pharmacy of the University of Illinois. In the management of the School, the trustees and officers have the assistance of an advisory board of pharmacists, elected by the registered pharmacists of the State through the Illinois Pharmaceutical Association.

LOCATION

The School of Pharmacy occupies the four upper floors in a building located at Michigan Boulevard and Twelfth Street. The building is a substantial brick structure, five stories in height, with a frontage of fifty feet on Michigan Avenue and one hundred seventy feet on Twelfth Street.

A half block east of the building is the Illinois Central Depot; and one block west are the Cottage Grove Avenue, Indiana Avenue, and Twelfth Street surface lines, and the Twelfth Street Station of the South Side Elevated Railroad.

On Michigan Avenue, immediately south of the School, are to be found some of the best low-priced boarding and rooming places in the city. Satisfactory accommodations may be readily secured within a short distance of the School.

EQUIPMENT

The east end of the building is occupied by lecture halls, of which there are three, arranged one above the other and having a seating capacity of from one hundred fifty to three hundred persons.

The laboratories are six in number, including one each for qualitative analysis, quantitative analysis, special work in chemistry, microscopy, manufacturing pharmacy, and dispensing. The total capacity of these laboratories is sufficient for the accommodation of 348 students, working at one time.

The laboratories are supplied with compound microscopes, analytical balances, and special apparatus, and with collections of crude drugs, medicinal plants, chemicals, and pharmaceutical products.

The library contains about two thousand volumes, including, in

addition to the usual works of reference, many rare books. Complete files of the leading pharmaceutical journals are an important feature.

COURSES OF INSTRUCTION

For the Degree of Graduate in Pharmacy

In the course leading to the degree of Graduate in Pharmacy the instruction is so arranged as to require the attendance of each student on three days each week and from twenty to twenty-one hours weekly during two annual sessions of thirty weeks each. This arrangement is advantageous to drug clerks who desire to spend a part of their time in drug stores while attending school, thereby adding to their practical experience and at the same time earning a part or all of their living expenses.

The subjects taught are chemistry, general, pharmaceutical, and analytical; pharmacy, theoretical, manufacturing, and dispensing; botany; physiology; and materia medica.

FOR THE DEGREE OF PHARMACEUTICAL CHEMIST

To meet the demand for special training on the part of students who desire to pursue more extended courses in pharmaceutical chemistry, applied chemistry, and bacteriology, or to prepare themselves for positions under the Food and Drugs Act, this School offers a course leading to the degree of Pharmaceutical Chemist. It comprises two annual sessions of thirty-six weeks each, with instruction on five days each week, amounting to about thirty-three hours weekly, or a total of 2,300 hours in the entire course.

This course is partially concurrent with the shorter course and includes all the didactic instruction given in the latter. It consists largely of laboratory practice. In addition to the subjects mentioned above it embraces organic analysis and proximate assays, new remedies, analysis of urine, food and sanitary analysis, bacteriology, and applied microscopy.

The system of teaching includes lectures, illustrations, demonstrations, recitations, written and oral examinations, and individual practice and personal instruction in the various laboratories, much time being devoted to this important part of the student's work.

ADMISSION

The regular session opens September 22, 1913. The shorter

course ends April 30, 1914; the longer course closes June 12, 1914.

Applicants for admission to the course leading to the degree of Pharmaceutical Chemist must be at least seventeen years of age and must be graduates of accredited high schools or furnish evidence of a preliminary education equivalent thereto.

Applicants for admission to the course leading to the degree of Graduate in Pharmacy must be at least seventeen years of age and must have completed one year of high school work or its full educational equivalent.

The entrance requirements of this school are those adopted by the American Conference of Pharmaceutical Faculties, of which this school is a member.

Students who have pursued courses of study in other colleges of pharmacy will be given credit for such portions of their work as are equivalent to the work required by this college.

GRADUATION

In conformity with the usual custom of pharmaceutical schools, drug store experience is not made a requirement for the degree of Pharmaceutical Chemist. Students who have satisfactorily completed the course will be awarded the degree upon the recommendation of the faculty.

For the degree of Graduate in Pharmacy this School has always required practical drug store experience. The actual time of attendance at the School, amounting to fourteen months, is credited as part of the four years of practical experience required for the degree. Candidates must have attained the age of twenty-one years and have satisfactorily finished the work leading to the degree. Students who have successfully met the scholarship requirement, but are lacking in age or in practical experience, will receive a certificate and will be awarded the diploma when the requirements of age and experience are satisfied.

Persons competent to fulfill the general requirements of admission to the University may be granted credits upon other University courses for equivalent work completed at the School of Pharmacy.

STATE REGISTRATION

To become a registered pharmacist in Illinois, it is necessary to pass an examination before the State Board of Pharmacy, no diplomas being recognized. The diploma of this School is, however, accepted in lieu of examination for registration in about ten states and territories; and in several other states, including New York and Pennsylvania, where graduation prerequisite laws are in force, this School is among the schools recognized, and its diploma admits to the examination.

The amendments to the Illinois Pharmacy Law, in effect July 1, 1907, give credit, as a part of the "practical experience in compounding drugs" required by the law, for the actual time of attendance at a recognized school of pharmacy but not to exceed two years for registered pharmacist or one year for registered assistant pharmacist.

FEES AND EXPENSES

For a statement of the fees, see page 124. Fees are payable in advance. Students unable to meet this requirement must make satisfactory arrangements with the Actuary at the beginning of the course.

BOARD AND LODGING.—Good board and lodging, within a short distance of the School, can be had for from four to six dollars per week. This expense may be somewhat reduced by two or more students rooming together. The Actuary keeps a list of suitable boarding and rooming places, with their rates.

SELECTION OF SEATS.—Seats in the lecture halls and desks in the laboratories will be assigned to students by the Actuary, in the order of enrollment. To enroll, junior students will fill out the matriculation blank and forward it to the Actuary, together with credentials for admission and the matriculation fee of five dollars; senior students will make a payment on tuition account of five dollars. It is of advantage to students to matriculate early.

OPPORTUNITIES FOR EMPLOYMENT.—The Actuary keeps a register of students desiring employment and of pharmacists wishing to employ students. Students desiring employment are invited to correspond with him.

FURTHER INFORMATION

Further information may be found in the special announcement of this school, which may be obtained from the Actuary, School of Pharmacy, Michigan Avenue and Twelfth Street, Chicago, or the Registrar, University of Illinois, Urbana.

PART III DESCRIPTION OF COURSES

DESCRIPTION OF COURSES

EXPLANATION

The arrangement of subjects in the following Description of Courses is alphabetical. The connections of allied departments are indicated by cross references.

Following the description of each course of instruction will be found the requirements, if any, for admission to that particular course. The sequence indicated by these prerequisites must be followed. For instance, under Art and Design 5, Painting, the prerequisites given are Art and Design 1, 2, and 3. These three courses must be completed before Course 5 may be taken.

If a course not required for graduation is selected by fewer than five students it may be withdrawn for the semester.

Graduate courses are numbered upward from 100.

Credit is reckoned in semester hours, or simply hours. An hour is one class period a week for one semester, or the equivalent in laboratory, shop, or drawing room. Graduate work is not recorded in credit hours, nor do the credit hours of undergraduate courses apply to graduate students enrolled in them.

The semester, and the number of hours each semester for which the course counts, are shown after each course, thus: I, II; (2). The Roman figures indicate semesters; the Arabic numerals in parenthesis indicate hours of credit for each semester for undergraduates. The omission of a course for the current year is indicated by enclosing the entire description of such a course in brackets.

ACCOUNTANCY (See Economics.)

AGRICULTURAL EXTENSION

FRED HENRY RANKIN, Superintendent and Assistant to the Dean, with rank of Assistant Professor ARETAS WILBUR NOLAN. M.S., Assistant Professor Francis Marion Simpson, B.S., Assistant Augusta Dillman Evans, A.B., Assistant JAMES VAIL STEVENSON, A.B., Assistant

1. PRINCIPLES AND METHODS OF HIGH SCHOOL AGRICULTURE. Features of agricultural science and practice best adapted to high school conditions; the best order and methods for their presentation: suiting course and instruction to the needs of the school community; what laboratory work shall be given; what apparatus may be used; what field work is practical. Practice teaching provided through cooperation with the local high school. II; (5).

Assistant Professor NoLAN

Prerequisite: Two years' work in agriculture.

3. AGRICULTURAL EXTENSION TEACHINGS.—Extension enterprises and the way in which they may be of service to the people; farmers' institutes; agricultural extension schools; farmers' clubs and cooperative work in rural communities. II: (1).

Assistant Professor RANKIN

Prerequisite: Agricultural Extension 4.

4. COUNTRY LIFE PROBLEMS.—Problems of the farm; duties of citizenship; social, economic, and educational work in rural communities. Lectures. Required of all first-year students. I, II; (1/2).

Professor Davenport and other members of the faculty

AGRICULTURE

(See AGRICULTURAL EXTENSION, AGRONOMY, ANIMAL HUSBANDRY, DAIRY HUSBANDRY, HORTICULTURE, and VETERINARY SCIENCE.)

AGRONOMY

CYRIL GEORGE HOPKINS, Ph.D., Professor, Agronomy JEREMIAH GEORGE MOSIER, B.S., Professor, Soil Physics Louie Henrie Smith, Ph. D., Professor, Plant Breeding JAMES HARVEY PETTIT, Ph. D., Professor, Soil Fertility LEONARD HEGNAUER, B.S., Professor, Crop Production

Axel Ferdinand Gustafson, M.S., Associate, Soil Physics
Ora Stanley Fisher, B.S., Associate, Soil Fertility
Harold Wilson Stewart, B.S., Associate, Soil Physics
William Leonidos Burlison, M.S., Associate, Crop Production
Ira Wilmer Dickerson, B.S., Instructor, Farm Mechanics
Karl John Theodore Ekblaw, B.S., Instructor, Farm Mechanics
Frederick Charles Bauer, B.S., Instructor, Soil Fertility
Chester Otis Reed, B.S., Instructor, Farm Mechanics
Albert Lemuel Whiting, Ph.D., Instructor, Soil Biology
Marvin Edward Jahr, A.B., Instructor, Farm Mechanics
Orr Allyn, B.S., Assistant, Crop Production

COURSES FOR UNDERGRADUATES

Crops: Agronomy 7, 8, 22, 25

Farm Mechanics and Buildings: Agronomy I, 2, 3, 4, 17, 19, 20, 26, 27

Soils: Agronomy 9, 10, 11, 12, 13, 23

- I. Drainage.—Drainage and its surveying operations. Chaining, mapping, leveling, designing, setting grade stakes, laying tile.
 Lectures and laboratory first half semester; field work second half semester. II; (3).
- 2. FIELD MACHINERY.—Physics: work, horse-power, resolution of forces, simple machines. Whiffletrees and hitches. Ropes: care, use, knots, splices. Chains. Construction, operation, adjustment, purchase, and care of implements for soil and seed preparation, and for seeding, cultivating, harvesting, and handling farm crops. Lectures; laboratory work. (Alternating with Mechanical Engineering 48 or 49 if desired.) I; (3). Mr. Reed
- 3. FARM POWER MACHINERY.—Power transmission: ropes, belts, pulleys, gearwheels, shafting, friction, lubrication; sources of farm power: the horse as a motor, windmills, waterpower, steam engines, hot air engines, electric motors—their theory, operation, and economy. Internal combustion engines and tractors—methods of ignition, theory, operation, and economy. Methods of applying power to field operations. Detailed design for a practical farm power plant. Lectures; laboratory. (Alternating with Mechanical Engineering 48 or 49 if desired.) II; (3).

 Mr. Dickerson
- 4. FARM BUILDINGS.—Arrangement, design, construction and cost; machinery sheds; granaries; corn cribs; chicken houses;

swine houses; barns; dwelling houses. Drafting of buildings; lectures; assigned readings. I; (5). Mr. Ekblaw

7. FARM CROPS.—Origin, history, development, and value; botanical relations; structure and requirement of seed for best development; preparation of the seed bed; seeding; cultivation, tillage, and inter-tillage; harvesting; time of maturity for various uses; rotations, or succession of crops; systematic farming, distribution of labor, cost of production, consumption of products, residues, byproducts; marketing; market conditions; losses in and cost of storage; the general utility of each crop, its place in a system of farming, or a rotation; special attention to Illinois conditions. Class, reference, laboratory, and field work. II; (5).

Professor Hegnauer

Prerequisite: Agronomy 25.

8. FIELD EXPERIMENTS.—Testing varieties of corn, oats, wheat, potatoes, and other farm crops; methods of planting corn, seeding grains, grasses, and other forage crops; culture of corn, potatoes, and sugar beets; practice in treating oats and wheat for smut, and potatoes for scab, and studying the effect upon the crops; combating cinch bugs and other injurious insects. Other practical experiments may be arranged with the instructor. II, and summer vacation; (2-5).

Professor Hegnauer

Prerequisite: Agronomy 25 and 7.

9. Soil Physics and Management.—Origin of soil material; methods of formation; mechanical composition and classification; moisture; texture as affecting capillarity, osmosis, diffusion, temperature, aeration, and as affected by plowing, harrowing, cultivating, rolling, and cropping; wasting by washing; fall or spring plowing and drainage as affecting moisture, temperature, and root development; real and apparent specific gravity, porosity, water holding capacity, and capillary power; the physical effects of different systems of rotation and of continuous cropping with various crops. Lectures; laboratory. *I*; (5).

Professor Mosier, Mr. Gustafson, Mr. Stewart, Mr. Fisher Prerequisite: Chemistry 1 and one unit in entrance physics; at least one year of university work. Regular students are urged to take this course after or in conjunction with Chemistry 13a; others consult instructor.

10. Special Work in Soil Physics.—Physical properties of special soils; centrifugal analysis of such soils; field observation of the

effects of discing, harrowing, and rolling; time and depths of cultivation; soil moisture and temperature; effects of washing of soils; methods of prevention. I or II; (2-5).

Professor Mosier, Mr. Gustafson

Prerequisite: Agronomy 9.

II. Soil Biology—Activities of infusoria, fungi, algae, and bacteria in soils from the standpoint of soil fertility; fermentation of crop residues and green and farm manures and its effect upon insoluble plant food; fixation of atmospheric nitrogen, its transformations, use, and possible losses. Lectures; laboratory. II; (3).

Professor Pettit, Dr. Whiting

Prerequisite: Agronomy 12; Botany 5.

12. Soil Fertility, Fertilizers, Rotations.—The influence of fertility upon the yield of various crops; effect of different crops upon the soil and upon succeeding crops; different rotations; ultimate effect of different systems of farming upon fertility and productivity; manures and fertilizers, their composition and value; soils cropped continuously with different crops and with a series of crops; the fertility of soils of different types or classes from different sections of Illinois. Lectures; laboratory. II; (5).

Professor Hopkins, Mr. Fisher, Mr. Bauer

Prerequisite: Chemistry 13a; Agronomy 9.

13. Investigation of the Fertility of Special Soils.—Soils in which the student is particularly interested. Determination of the nature and quantity of the elements of fertility; effect upon various crops of different fertilizers added to the soils, as determined by pot cultures, and by plot experiments; systematic study of similar work of experiment stations and experimenters. *I*, *II*; (2-5).

Professor Hopkins, Professor Pettit

Prerequisite: Agronomy 12.

16. German Agricultural Readings.—Special attention to soils and crops. The current numbers of German journals of agricultural science used as texts. II; (2). Professor Hopkins

Prerequisite: Two years' work in German; Agronomy 12.

17. Harvesting Machinery.—Expert work on grain binders, corn binders, mowers, hay rakes, loaders, and stackers. (For students preparing to do expert work on these machines in the field.) II; (3).

Mr. Reed

Prerequisite: One year of university work; Agronomy 2, 3; M. E. 48; the consent of the instructor.

18. Investigation and Thesis.—I, II; (5-10).

Professors Hopkins, Mosier, Smith, Pettit, Hegnauer

19. Research Work in Farm Mechanics.—(Consult instructor regarding time and requirements.)

Mr. Dickerson, Mr. Ekblaw, Mr. Jahr, Mr. Reed

- 20. CONCRETE CONSTRUCTION FOR AGRICULTURAL PURPOSES.—
 Materials; mixing and using; simple comparative tests; general specifications and estimates for walks, posts, tanks, floors, and foundations. II; (2).

 Mr. Ekblaw
- 22. PLANT BREEDING.—The improvement by breeding of field crops, including the grains, grasses, and legumes; selection; results obtained by various investigators. Lectures; assigned readings; demonstrations; laboratory. II; (2). Professor SMITH

Prerequisite: Botany 1; Chemistry 13a; Agronomy 25.

- 23. PLANT FOOD SUPPLIES.—The world's supply of plant food materials; utilization and conservation. II; (1). Professor Pettit Prerequisite: Agronomy 12.
- 25. FARM CROPS.—Plant growth; structure; habits and requirements; preparation of the seed bed; seed selection for productiveness; storing; care of stored grain to prevent deterioration in vitality, or loss in market requirements; grading and fanning of grain as a means of improvement; market grades of grain and grain judging; examination of grains for purity; testing for vitality; weeds; identification, methods of distribution, eradication, control; diseases of farm crops and methods of prevention. *I or II*; (4).

Professor Hegnauer, Mr. Burlison

- [26. FARM BUILDINGS AND EQUIPMENT.—Location; design; construction; cost; maintenance; efficiency; economy. Lighting; heating; ventilation; water supply; plumbing; sewage disposal; home power-plant; minor household and farm conveniences. Lectures, recitations, problems, with some elementary drafting. II; (3). Not given in 1912-13.

 Mr. Ekblawl
- 27. Drainage Design.—Designing tile drainage systems from level note data and contour maps; estimating sizes, amounts, and cost of tile, and cost of systems complete; designing outlet open ditch systems for drainage districts, estimating sizes and costs; drainage district laws; preparing bids on contract jobs; advanced field work. *I*; (1-5).

 Mr. Jahr

Prerequisite: Agronomy 1, or C. E. 21 or 22.

COURSES FOR GRADUATES

Students who wish to do their major work in agronomy must have had the major courses offered in that subject to undergraduates in the College of Agriculture of the University of Illinois, or the equivalent. While every one seeking a doctor's degree with agronomy as a major will be required to have a good knowledge of the whole field of agronomy, each student is expected to be especially prepared in some one of the following divisions of the field: soil fertility, plant breeding, soil physics, crop production, and soil biology.

Students who are taking their major work in other departments and choose agronomy as a minor must have had previously the work in chemistry, botany, and other fundamental sciences prescribed in the undergraduate courses for students of agronomy in the College of Agriculture, or the equivalent.

IOI. SOIL INVESTIGATION.—Systems of soil investigation; sources of error and methods of control; interpretation of results. Once a week; II.

Professor HOPKINS

103. Soil History.—Different systems of agricultural practice and their ultimate effect upon the soil. Once a week; II.

Professor Hopkins

II2. PLANT BREEDING.—A detailed study of experiments at this station; methods and results reported from other states and from foreign countries. Once a week; I, II. Professor SMITH

Prerequisite: Botany 1; Chemistry 13a.

118. Investigation.—Professors Hopkins, Mosier, Smith, Pettit

ANIMAL HUSBANDRY

(Including FARM MANAGEMENT)

HERBERT WINDSOR MUMFORD, B.S., Professor, Animal Husbandry HARRY SANDS GRINDLEY, D.Sc., Professor, Animal Chemistry

LOUIS DIXON HALL, M.S., Assistant Professor, Animal Husbandry
WALTER CASTELLA COFFEY, M.S., Assistant Professor, Sheep
Husbandry

EDWIN STANTON GOOD, M.S., Assistant Professor, Swine Husbandry JOHN A DETLEFSEN, D.Sc., Assistant Professor, Genetics HENRY PERLY RUSK, M.S.A., Associate, Beef Cattle JAMES LLOYD EDMONDS, B.S., Associate, Horse Husbandry

DANIEL OTIS BARTO, B.S., Associate, Poultry Husbandry

WALTER EDWARD JOSEPH, Ph.D., Instructor, Animal Husbandry

WILLIAM HERSCHEL SMITH, M.S., Instructor, Animal Husbandry

WALTER FREDERICK HANDSCHIN, Assistant, Animal Husbandry

SLEETER BULL, M.S., Instructor, Animal Nutrition

JOHN JONATHAN YOKE, Assistant, Animal Husbandry

VIRGIL AUGUSTUS PLACE, B.S., Assistant, Animal Husbandry

HAROLD CLAYTON M. CASE, B.S., Assistant, Animal Husbandry

WILBUR JEROME CARMICHAEL, Assistant, Animal Husbandry

JOHN RICHARD WELLS, B.S., Assistant, Animal Husbandry

COURSES FOR UNDERGRADUATES

Beef Cattle: Animal Husbandry 11a, 11b

Breeding, Feeding, and Management: Animal Husbandry 6, 7, 14,

28, 29, 30

General Judging: Animal Husbandry 5, 22 Horses: Animal Husbandry 4a, 4b, 17

Meat: Animal Husbandry 10, 24 Poultry: Animal Husbandry 23

Sheep: Animal Husbandry 1a, 1b, 25, 27 Swine: Animal Husbandry 2a, 2b, 26

Note.—Students registered in advanced courses such as 14, 22, 28, etc., will be required to participate in a tour of inspection of representative herds, flocks, and studs.

13. Sheep: Breeds and Market Classes.—Breeds extensively used for mutton and wool production; type, characteristics, and adaptability; market classes and grades of sheep and wool. Lectures; judging. I; (2). Assistant Professor Coffey, Mr. Place Prerequisite: Animal Husbandry 5 or its equivalent.

Ib. Sheep: Breeding, Feeding, and Management.—Pure bred and grade flocks: feeding, housing, and shepherding. Lectures; reference readings. I; (3). Assistant Professor Coffey, Mr. Place Prerequisite: Animal Husbandry 5 and 6 or their equivalents. It is advisable to take 12 and 1b simultaneously.

2a. SWINE: BREEDS AND MARKET CLASSES.—History of the leading breeds: type, characteristics, and adaptability; market

classes and grades; market reports. Lectures; judging. II; (2).

Assistant Professor Good, Mr. Carmichael

Prerequisite: Animal Husbandry 5 or its equivalent.

2b. Swine Husbandry.—Swine raising from the standpoint of market requirements and of economic production; breeding, housing, care, and feeding of swine for breeding purposes. II; (3).

Assistant Professor Good, Mr. CARMICHAEL.

Prerequisite: Animal Husbandry 5 and 6, or their equivalents. It is advisable to take 2a and 2b simultaneously.

4a. Breeds of Horses and Market Classes of Horses and Mules.—History of the leading breeds; type, characteristics, and adaptability; market classes, grades, and requirements. Lectures; judging. II; (2).

Mr. Edmonds, Mr. Yoke

Prerequisite: Animal Husbandry 5, or its equivalent.

4b. Breeding, Feeding, and Management of Horses.—Methods: care of stallions, mares, and foals; of work horses and drivers at labor and idle; fattening horses for market. Lectures; assigned readings. II; (3).

Mr. Edmonds, Mr. Yoke

Prerequisite: Animal Husbandry 5 and 6, or their equivalents. It is advisable to take 4a and 4b simultaneously.

- 5. Fundamentals of Live Stock Judging.—The names and location of external parts of the various kinds of live stock, the use of the score card, comparative judging as a method, breed identification, and types of farm animals. Required in freshman year. I; (3). Assistant Professor Coffey and members of the department
- 6. Principles of Feeding and Breeding.—Feeding; classification, digestibility, and functions of food nutrients; market grades and food values of feeding stuffs; feeding standards and calculation of balanced rations for farm animals.

Breeding: evolution of domesticated animals; history of systematic breeding and improvement; unit characters; range of variability; effects of selection; systems of breeding.

Required in sophomore year. I: (3).

Feeding: Assistant Professor Hall, Dr. Joseph, Mr. Bull Breeding: Mr. Handschin, Mr. Smith, Mr. Case

7. PRINCIPLES OF ANIMAL NUTRITION.—Composition and fuel value of feeding stuffs; organic and inorganic food stuffs; digestion, absorption, and metabolism; elimination of metabolic products;

coefficients of digestibility and nutritive value of feeding stuffs. I; Professor Grindley, Dr. Joseph, Mr. Bull Prerequisite: Animal Husbandry 5 (or course formerly known as Animal Husbandry 21); Chemistry 13a.

- 9. Investigation and Thesis.—I or II; (5-10).
- 10. MEAT.—Farm butchering, curing, and care of meats; yield, quality and values of meat and by-products, as related to breeding, feeding, and health of animals; classes, grades, and cuts of meat in wholesale and retail markets. II: (3). Assistand Professor HALL

Prerequisite: Animal Husbandry 5 and 6, or their equivalents.

11a. BEEF CATTLE.—Breeds and market classes; history of the leading breeds; beef type from the standpoint of the butcher, the feeder, and the breeder; classification and value of each grade according to current market reports. Judging; lectures; quizzes; assigned readings. I: (2). Mr. Rusk, Mr. Smith

Prerequisite: Animal Husbandry 5 or its equivalent.

11b. BEEF PRODUCTION.—Breeding and management of pure bred herds; breeding for market; combined beef and milk production; economic factors in cattle feeding; influence of age, grade, breed, condition, and sex; equipment; pork and manure as by-products of beef production. Lectures; quizzes; assigned readings (text book). I; (3). Mr. Rusk, Mr. Smith

Prerequisite: Animal Husbandry 5 and 6, or their equivalents. It is advisable to take IIa and IIb simultaneously.

14. MANAGEMENT OF PURE-BRED HERDS, FLOCKS, AND STUDS.-Housing and management; selecting and fitting animals for sale and for the show ring; advertising and sale of surplus stock. Laboratory work with animals in University barns; lectures; assigned II; (3). readings.

Professor Mumford and other members of the department Prerequisite: Animal Husbandry 5 and 6, and six hours' credit from 1b, 2b, 4b, 11b. See note, page 264.

15.—Dairy Cattle.—(See Dairy Husbandry 2 and 3.)

[17. EDUCATION AND DRIVING OF THE HORSE.—Mental qualities, peculiarities, and limitations of the horse; education and training for labor or the road; correct driving; responsibilities of the driver; courtesies of the highway. Lectures; readings; practice. II, (2). Not given in 1912-13.

Prerequisite: Animal Husbandry 4a and 4b; three semesters'

work in the University or its equivalent.1

22. Advanced Stock Judging.—Animal conformation, quality, and condition with reference to market and show yard requirements; the selection of horses, beef cattle, sheep, and swine, for feed lot, market, and exhibition; judging at live stock shows. I; (3)

Professor Mumford and instructors in charge of prerequisite courses Prerequisite: Animal Husbandry 1a, 2a, 4a, 11a, or their equivalents. See note. page 264.

23. POULTRY: Types, Breeds, and Varieties.—Exhibiting and judging; principles of breeding; poultry houses and equipment; feeding, hatching, and brooding; market eggs and poultry; cratefattening and dressing; diseases and their treatment. II; (5).

Mr. Barte

Prerequisite: Animal Husbandry 5, or its equivalent.

24. MEAT.—Influence of type, condition, age, sex, and feeds upon the yield and market grade of meat products. II; (2-5).

Assistant Professor HALL

Prerequisite: Animal Husbandry 10, and 1a or 2a or 11a, three years' work in the University, or its equivalent.

25. Wool.—Quality, quantity, strength, and condition of wool.

II; (2-5). Assistant Professor Coffey

Prerequisite: Animal Husbandry 1a, 1b; three years' work in

the University, or its equivalent.

[26. SWINE HUSBANDRY.—Special problems in swine production. II; (2-5). Not given in 1912-13. Assistant Professor Good Prerequisite: Animal Husbandry 2a, 2b; three years' work in

the University, or its equivalent.]

27. Sheep Husbandry.—Factors determining the importance of the industry in leading sheep growing countries, particularly different parts of the United States. II; (2-5).

Assistant Professor Coffey

Prerequisite: Animal Husbandry 1a, 1b; three years work in the University, or its equivalent.

28. ADVANCED HISTORY OF BREEDS OF LIVE STOCK.—Horses, beef cattle, sheep, and swine. Methods of great breeders; performances and pedigrees of famous animals; breed type as exemplified in the University and other herds. Lectures; assigned readings; problems, Breeds offered in 1912-13: Beef cattle, Shorthorns, Aberdeen Angus; horses, Percherons, Standard breds; swine, Berkshires, Duroc Jerseys; sheep, Shropshires, Rambouillets. Breeds offered in 1913-14: Beef Cattle, Herefords, Galloways; horses, Shires, American Sad-

dlers; swine, Poland Chinas, Chester Whites; sheep, Hampshires, Oxford Downs. 1; (3-5).

Professor Mumford and other members of the department *Prerequisite:* "a" and "b" courses in class of live stock elected. See note, page 264.

29. Systems of Live Stock Farming.—The principles of management; influence of climate, topography, soil, character of the people, location, and other factors. II; (2). Mr. Handschin

Prerequisite: Animal Husbandry 5 and 6; six hours credit from

1b, 2b, 4b, or 11b; Farm Management 1.

30. Genetics.—Heredity; variation; Mendel's and Galton's Laws; dominance and segregation; gametic coupling and spurious allelomorphism; correlation; mutation theory; inheritance of acquired characters; prenatal influence; pure lines, selection, variability; modification of unit-factors. Practical application to breeding. Lectures; laboratory. II; (5). Assistant Professor Detlefsen

Prerequisite: Two years of university work, including ten hours

in biology.

COURSES FOR GRADUATES

Students entering graduate work in Animal Husbandry should have had a thorough training in the fundamental principles of the subject either in connection with or in addition to an agricultural course of study substantially equivalent to that offered in this University.

See courses 7, 22, 24, 25, 26, 27, in undergraduate list, which are also open to graduate students.

103. LIVE STOCK EXPERIMENTATION.—Objects, methods, and the sources of error in experimental work dealing with the feeding, breeding, and management of farm animals; experiments at this and other experiment stations. Once a week; I, II.

Professor Mumford

[110. ANIMAL NUTRITION.—Recent scientific publications on the chemistry and physiology of the nutrition of the lower animals; the chemical and physiological changes and processes involved in the activities of animal life. Lectures; conferences; assigned readings. Three times a week; I, II. Not given 1912-13.

Professor GRINDLEY]

III. Animal Nutrition.—Examination and analysis of feeding stuffs and animal substances including flesh, fat, bone, urine, feces, and manufactured animal products. Lectures; conferences; assigned readings; laboratory. Two to five times a week; I, II.

Professor GRINDLEY

112. INVESTIGATION .-

- (a) Economic factors involved in the various phases of meat production.
- (b) Systems of live stock farming.
- (c) The valuation of pedigrees.
- (d) Animal Nutrition: Digestion and metabolism experiments and biochemical studies connected with the nutrition of farm animals.
- (a), (b), and (c), once a week; I, II. Under the direction of Professor Mumford
 - (d), daily; I, II. Under the direction of Professor Grindley
 116. Seminar.—Reports; discussion of special topics. I, II.
 Professor Mumford, Professor Grindley, and others

FARM MANAGEMENT

I. ELEMENTARY FARM MANAGEMENT.—The factors of production in the farm business; systems of farming, their distribution, and adaptation; farm organization; the distribution of capital invested; planning of the farm; farm administration or operation; planning of work; handling of labor; developing management efficiency. Lectures; quiz. II; (2). Mr. HANDSCHIN

Prerequisite: Three semesters of required work; Economics 2.

ARCHITECTURE

Frederick Maynard Mann, M.S., C.E., Professor

NATHAN CLIFFORD RICKER, D.Arch., Professor

NEWTON ALONZO WELLS, M.P., Professor, Architectural Decoration

JAMES McLaren White, B.S., Professor, Architectural Engineering

CHARLES RICHARD CLARK, B.S., Associate, Architectural Construction

ROY CHILDS JONES, B.S., Instructor

ROBERT TAYLOR JONES, B.S., Instructor

SIDNEY FISKE KIMBALL, M.Arch., Instructor

ALLEN HOLMES KIMBALL, M.S., Instructor, Architectural Design JOSEPH MITCHELL KELLOGG, M.Arch., Instructor, Architectural Design

FREDERICK KITSON COWLEY, Instructor

SAMUEL C. BURTON, Instructor

WINIFRED FEHRENKAMP. B.L.S., Librarian

4. BUILDING SANITATION.—Plumbing, trap ventilation, removal of wastes; construction of water closets; drains, and systems of water supply; sewage disposal; water supply and fixtures in dwell-Cosgrove's Principles and Practice of Plumbing. Recitations; lectures; designs for special problems. I; (2). Mr. CLARK

Prerequisite: Registration in Physics 2a, 2b; Architecture 2, 3,

- 5. GRAPHIC STATICS.—Same as 45 and 46. One lecture and nine hours drawing per week. II; (4). Mr. CLARK
- 6. HISTORY OF ARCHITECTURE.—From the Egyptian period to modern times: effects of political, economic, and local conditions: influence of materials, climate, structural systems; architecture of the various countries and periods; evolution of architectural forms. Illustrated lectures; quizzes. I. II; (4).

Prerequisite: Sophomore standing in architecture or architectural engineering.

8. Architectural Drawing.—Perspective; shades and shadows; conventional rendering; relations of plans, elevations, and sections to each other; elementary architectural composition. Nine hours drawing per week. II; (3). Mr. A. H. KIMBALL

Prerequisite: General Engineering Drawing 1, Architecture 20. 10. ESTIMATING.—Methods and practice of estimating building costs. II: (1). Mr. CLARK

12, 13, 14, 15. HISTORY OF ARCHITECTURE.—Covers approximately the same ground as Architecture 6. Sophomore I, II; Junior I, II; (2). Professor RICKER

Prerequisite: Architecture 31, 32.

14a. Architectural Perspective.—Theory of perspective; laborsaving methods; freehand perspective; problems in angular, parallel, vertical, and curvilinear perspective, and in perspective shades and shadows. One lecture and three hours drawing per week. 1: (2). Mr. A. H. KIMBALL

Prerequisite: General Engineering Drawing I, 2.

15a. Design.—(Architectural design for architectural engineers.)

Order and plan problems. Nine hours drawing per week. II; (3).

Mr. A. H. Kimball

Prerequisite: General Engineering Drawing 1, 2; Architecture 20, 8.

19. Architectural Engineering.—Graphic statics applied to the analysis of metalic roofs of wide span; roof trusses of curved or unusual form and those supported by abutments and jointed, spherical, and conical trussed domes; the stone arch, vault, and dome, and of the Gothic system of vaults and buttresses; the strength of walls, dams, retaining walls, and large chimneys; the effect of moving loads on girders; construction and details of steel skeleton buildings. Problems in design for specified cases. Tucker's Steel Construction; Ricker's Notes on Architectural Engineering. Nine hours drawing per week. I, II; (3).

Mr. CLARK

Prerequisite: Theoretical and Applied Mechanics 6, 7, 8, 9; Architecture 43, 44, 5.

- 20. ARCHITECTURAL AND FREEHAND DRAWING.—Freehand drawing from the cast; principles of architecture; architectural elements: walls, moldings, doors, windows, the Orders, etc. Lectures and sketching. Two lectures and seven hours drawing per week. I; (3).

 Mr. A. H. Kimball
- 23, 24. Freehand Drawing.—Charcoal drawing from the cast. Six hours drawing per week. I, II; (2).

Professor Wells, Mr. Cowley

25, 26. Freehand Ddawing.—Charcoal, pen, pencil, and water color drawing from the cast and from still life. Out-of-door sketching. Six hours drawing per week. I, II; (2).

Professor Wells, Mr. Cowley

- 27, 28. Freehand Drawing.—Water color drawing; original decorative composition; out-of-door sketching. Six hours drawing per week. I, II; (2).

 Professor Wells
- 31. ARCHITECTURAL AND FREEHAND DRAWING.—Practice with instruments, pen, pencil, and brush; lettering; shades and shadows; perspective. Charcoal drawing from the cast. One lecture and eleven hours drawing per week. I; (4).

Mr. S. F. Kimball, Mr. Burton, Mr. Cowley

Prerequisite: Registration in G. E. D. 2.

32. ARCHITECTURAL AND FREEHAND DRAWING.—Elements of

architecture; walls, moldings, doors, windows, the Orders, vaults, roofs, stairs. Wash rendering, stereotomy, charcoal drawing from the cast. Lectures and sketching. One lecture and eleven hours of drawing per week. II; (4).

Mr. S. F. Kimball, Mr. Burton, Mr. Cowley

Prerequisite: Architecture 31.

33, 34 Design.—(Elementary). Rendered order problems and sketch problems involving simple composition; library research in elements of composition. *Nine hours drafting room per week.* I, II; (3).

Mr. Kellogg, Mr. A. H. Kimball

Prerequisite: Architecture 31, 32.

- 34a. Architectural Engineering Seminar.—Current literature; reports and discussions. I; (1). Professor White
- 35, 36. Design.—(Intermediate). Rendered plan problems and sketch problems; library research in plan and interior elements. Fifteen hours drafting room per week. I, II; (5). Mr. R. C. Jones Prerequisite: Architecture 33, 34.
- 37. Design.—(Advanced). Extended problems in original design. Twenty-one hours drafting room per week. I; (7).

Professor Mann

Prerequisite: Architecture 35, 36.

38. Thesis.—The working out of an extended original problem in design or construction. First semester: preliminary work; second semester: prescribed hours meet but part of the thesis requirement. Twenty-one hours drafting room per week. I, II; (7).

Professor Mann, Professor White

43. Specifications and Working Drawings.—The growth, cutting, seasoning, working, and finishing of woods; structural and decorative properties; detailing at large scale various parts: floors, walls, roofs, doors, windows, cornices, stairs, wainscoating, cabinetwork, internal finish; detail sketches of similar work in process of actual construction. Kidder's Building Construction, Part II. Two lectures and four hours drawing per week. I; (3). Mr. R. T. Jones

Prerequisite: General Engineering Drawing 2; Architecture 31, 32.

44. Specifications and Working Drawings.—Foundations of stone, brick, concrete, and piles; materials employed in stone masonry; their uses, defects, qualities, and modes of preparation; kinds of masonry and external finish; tools for stone cutting and their

use; brick masonry, its materials and bonds; terra-cotta design, manufacture, and use; manufacture and refining of cast iron, wrought iron, and steel; pattern making, molding, casting, refining, rolling, etc., and standard dimensions or sections; detailing of columns, beams, girders, and footings; joints and connections. Kidder's Building Construction and Superintendence. Part I. Two lectures and four hours drawing per week. II; (3).

Mr. R. T. Jones

Prerequisite: General Engineering Drawing 2; Architecture 31, 32.

- 45. Graphic Statics.—Elements of graphic statics and their application in the analysis of trussed roofs, steel and masonry arches, domes. The graphical representation of reactions, bending moments, and shear, in beams. Ricker's Notes on Graphic Statics. One lecture and six hours drawing per week. 1; (3). Mr. CLARK Prerequisite: Theoretical and Applied Mechanics 14, 15, 16.
- 46. Structures.—Design of wooden and steel roofs; determination of section of members; design of joints; mill and steel skeleton construction. One lecture and three hours drawing per week. II; (3).

 Mr. CLARK

Prerequisite: Architecture 45.

Building Sanitation.—(Similar to Architecture 4). I; (1).
 Mr. Clark

Prerequisite: Physics 2a, 2b; Architecture 2, 3.

57. HEATING AND VENTILATION.—Theory and practice of warming and ventilating buildings; fuels and production of heat; flow of gases through ajutages and pipes; calculation of dimensions of air ducts and chimneys; systems of heating: furnaces, hot water, steam; sources of impurity in the air and requirements of good ventilation; methods of ventilation by aspiration, by fans; fans of different types. Problems; design of heating plants. Hoffman's Heating and Ventilation. I, II; (2 or 3). Professor White

Prerequisite: Architecture 43, 44, 55; Physics 2a, 2b; or 1, 3.

59. Domestic Architecture.—(Given in connection with Household Science 2.) Lectures; criticism.

Professors Mann and White, Mr. Clark, Mr. R. T. Jones

60. Special Lectures.—Lectures by members of the staff and by invited architects. One lecture per week. I, II; (1).

In charge of Professor Mann

65, 66. THEORY OF ARCHITECTURE.—Influence of function on architectural form; theory of architectural composition in plan and elevation; problem analysis. Lectures; research; exercises. *I, II*; (1). Mr. R. C. Jones

Prerequisite: Architecture 33, 34.

67. (41). Theory of Form and Color.—Principles underlying pleasing arrangements of form and color; rhythm and sequence; harmony and contrast; proportion and balance. Lectures; exercises. I; (2).

Professor Wells

Prerequisite: Architecture 25, 26, 35, 36.

68. (12). Business Relations.—The relations of the architect, owner, and builder; forms of contracts and contract clauses; estimating; office organization; building ordinances; professional ethics.

II: (3). Professor Mann

Prerequisite: First three years of the courses in Architecture or Achitectural Engineering.

COURSES FOR GRADUATES

Entrance upon graduate work in architecture presupposes the full undergraduate course in that subject. Semi-weekly conferences are held and additional instruction given, in all courses, as may be required.

- 101. Architectural Construction.—Design of special structures. Arrange hours; I, II. Professors Ricker and White
- 102. Sanitation of Buildings.—The planning of sanitation, warming, and ventilation, for buildings of importance. *Arrange hours; I, II.*Professors Ricker and White, Mr. Clark
- 103. Advanced Architectural Graphics.—Advanced work in graphic statics, stereotomy, perspective, water color, and free-hand drawing. *Arrange hours*; *I or II*. Professors Ricker, Wells
- 104. Architectural Design.—Advanced architectural design.

 Arrange hours; I or II. Professor Mann
- 105. Architectural Practice.—Contracts, specifications, and office methods; architectural jurisprudence. Arrange hours; I or II.

 Professors Mann. Ricker, White
- 106. ADVANCED ARCHITECTURAL HISTORY.—Special research in architectural history. Arrange hours; I or II.

Professors MANN and RICKER

ART AND DESIGN

EDWARD JOHN LAKE, B.S., Assistant Professor MARY MINERVA WETMORE, Instructor CHARLES FABENS KELLEY, A.B., Instructor ISABEL JONES, Instructor

1. Free-Hand Drawing.—The principles of perspective; practice in drawing. *I, II;* (2).

Assistant Professor Lake, Miss Jones, Mr. Kelley

2. Light and Shade.—Shaded drawing in monochrome. II; (2). Assistant Professor Lake, Miss Jones

Prerequisite: Art and Design 1.

3. Antique Drawing.—Practice in drawing; study of artistic anatomy. I, II; (2). Miss Wetmore

Prerequisite: Art and Design 1.

4. Water Color Painting.—Still-life; flowers; landscapes. I, II; (3). Miss Jones

Prerequisite: Art and Design 1, 2.

Drawing from Life.—Posed model in costume. I, II; (2).
 Miss Wetmore

Prerequisite: Art and Design 1, 2, 3.

- 6. PORTRAIT IN OIL COLOR.—Figure and portrait in costume. I, II; (2).

 Miss Wetmore Prerequisite: Art and Design 1, 2.
- 7. OIL PAINTING.—Still-life; flowers; landscape. I, II; (3).

 Miss Wetmore

Prerequisite: Art and Design 1, 2.

8. Modeling.—Antique and figure; plaster casting. I, II; (2).

Assistant Professor Lake

Prerequisite: Art and Design 1.

IO. SKETCHING IN MONOCHROME.—General practice in pen and pencil. II; (1). Assistant Professor Lake

Prerequisite: Art and Design 1.

- 12. Design.—Theory and practice. I, II; (2). Mr. Kelley Prerequisite: Art and Design 1.
- 13. Design.—History and practice. I, II; (3). Mr. Kelley Prerequisite: Art and Design 1, 12.

14. Design.—Advanced practice. I, II; (3). Mr. Kelley Prerequisite: Art and Design 1, 12, 13.

19. HISTORY OF THE FINE ARTS.—I, II; (2).

Assistant Professor LAKE

Prerequisite: One year of college work.

ASTRONOMY

*Joel Steebins, Ph.D., Assistant Professor Frank Walker Reed, Ph.D., Instructor

Instruction in astronomy is arranged both for general students and for those who desire to take up the science from its technical side. Advanced students are given every opportunity to become familiar with the use of modern astronomical instruments. The equipment of the department is contained in the Astronomical Observatory. The principal instruments are a 12-inch refracting telescope by Warner and Swazey, and Brashear, and a 3-inch transit and zenith telescope. There are also two smaller equatorials, two Riefler clocks, and a considerable amount of minor apparatus such as chronometers, transits, sextants, spectroscopes, photometer, photographic outfit, and calculating machines. The astronomical library comprises about 1,200 volumes, and includes all of the important astronomical periodicals.

Students without mathematical training may elect course I. Course 4 is for beginners, but requires a knowledge of trigonometry. Other courses should be taken in the following order: 3, 6, 15, 14, 7.

COURSES FOR UNDERGRADUATES

- I. ELEMENTARY ASTRONOMY.—Lectures; recitations; one evening a week at the observatory. (For beginners; mathematics not required.) I; (3). Assistant Professor Stebbins, Dr. Reed-
- 3. GENERAL ASTRONOMY FOR ENGINEERS.—Descriptive astronomy; required with course 6. II; (3).

Assistant Professor Stebbins, Dr. Reed

Prerequisite: Mathematics 7 or 8a.

4. General Astronomy.—Lectures; recitations; two evenings a week at the observatory. II; (5).

Dr. Reed-

Prerequisite: Mathematics 4.

6. Practical Astronomy.—Rough and accurate determinations

^{*}On leave.

of latitude, azimuth, and time, especially with the ordinary surveyor's transit; the art of computing. II; (2).

Assistant Professor Stebbins, Dr. REED

Prerequisite: Mathematics 7 or 8a.

FOR ADVANCED UNDERGRADUATES AND GRADUATES

7. THEORETICAL ASTRONOMY.—Celestial mechanics; theory of orbits; perturbations; canonical transformations. I, II; (3).

Dr. REED

Prerequisite: Mathematics 8a or 7 and 9.

9. Celestial Mechanics.—Properties of canonical systems of differential equations; integration by series; periodic and asymptotic solutions; integral invariants. *I, II;* (3). Dr. Reed

Prerequisite: Mathematics 16; Astronomy 7.

14. Observational Astronomy.—The working methods of an astronomical observatory; individual problems. II; (3).

Assistant Professor Stebbins, Dr. Reed

Prerequisite: Astronomy 15.

15. Geodetic Astronomy.—The sextant, transit, and zenith telescope; methods similar to those of the United States Coast Survey.

I; (3). Assistant Professor Stebeins, Dr. Reed Prerequisite: Mathematics 7 or 8a.

COURSE FOR GRADUATES

IOI. SEMINAR AND THESIS.—Three times a week; I, II.

Assistant Professor Stebbins, Dr. Reed

BACTERIOLOGY

(See Botany 5, 6, 8, 103, 104.)

BANKING (See Economics.)

BIOLOGY

(See Botany, Entomology, Physiology, and Zoology.)

BOTANY

THOMAS JONATHAN BURRILL, Ph.D., LL.D., Professor, Emeritus CHARLES FREDERICK HOTTES, Ph.D., Assistant Professor Otto Rahn, Ph.D., Assistant Professor James Theophilus Barrett, Ph.D., Associate Warder Clyde Allee, Ph.D., Instructor Stella Mary Hague, Ph.D., Assistant

John Hamilton Whitten, A.B., Assistant
Rosalie Mary Parr, A.M., Assistant
Reed O'Shea Brigham, B.S., Assistant
Ruth Sarah Atwell, B.S., Assistant
Clyde Ross Newell, M.S., Assistant
Bronson Barlow, B.S., Assistant
Clinton Albert Ludwig, B.S.A., Graduate Assistant
Samuel Hawthorne Scherfee, A.B., Graduate Assistant
Ernest Michael Rudolph Lamkey, Graduate Assistant

Courses numbered I to 16 inclusive are primarily for undergraduates; those numbered 101 to 104 inclusive are for graduates only. The undergraduate work may be roughly classified in four somewhat distinctive lines, viz: I, anatomy and physiology (courses I, 3, 7, 9, 14); 2, morphology and taxonomy (courses 2, 4, 16); bacteriology (courses 5, 6, 8). Course II is an introductory one and 15 is for prospective teachers. Courses I, 2, and 4 form together a general introduction to the science and may be elected by those who propose to go no farther or with equal propriety by those who are to pursue subsequently the more specialized work.

I. HISTOLOGY AND PHYSIOLOGY.—The tissues and organs of plants; the phenomena of nutrition, growth, and irritability; II; (5).

Assistant Professor Hottes, Dr. Allee, Mr. Whitten, Miss Parr, Mr. Brigham, Miss Atwell, Mr. Ludwig, Mr. Scherfee, Mr. Lamkey

Prerequisite: Entrance credit in botany, or Botany II; Chemistry I or Physics 2a.

2. Morphology.—The principal plant groups, beginning with the lower (thallophytes), by selected types. First semester: general survey of the plant world; second semester: seed plants (spermatophytes). Each semester's work is credited separately as 2a and 2b. I, II; (5).

Dr. Hague

Prerequisite: Entrance credit in botany, or Botany II (for 2b, Botany II or 2a).

3. CYTOLOGY AND PHYSIOLOGY.—First semester; cytology and histology, with special attention to technique. Second semester: influences of external stimuli on growth and movement. Lectures; laboratory; assigned reading. (Extends through the year, but the

work of each semester is credited separately as 3a and 3b.) I, II;
(5). Assistant Professor Hottes

Prerequisite: Botany 1.

4. TAXONOMY OF SPERMATOPHYTES.—Identification and classification of flowering plants. Lectures; assigned reading; laboratory; field excursions. *I*; (5). Dr. HAGUE

Prerequisite: Entrance credit in botany, or Botany 11.

BACTERIOLOGY.—General principles; methods of procedure; selected forms. Lectures; recitations; laboratory work. *I or II*;
 (5). (Course given in the first semester is repeated in the second.)
 Assistant Professor RAHN, Mr. Newell, Mr. Ludwig

Prerequisite: Chemistry I; one year's university work, including one semester in botany or zoology.

6. Bacteriology for Sanitary Engineers. — Bacteriological methods; water analysis and sewage. *I, last seven weeks*; (2).

Assistant Professor RAHN, Mr. NEWELL

7. PLANT PATHOLOGY.—First semester: the more important diseases of cultivated plants, their causes, and methods of prevention; second semester: methods of investigation and control. (Each semester's work credited separately as 7a and 7b.) *I, II;* (5).

Dr. BARRETT

Prerequisite: Botany 1; 2 or 4.

- 8. Bacteriology.—Selected species of bacteria; investigations upon assigned subjects. *I or II*; (2-5). Assistant Professor Rahn *Prerequisite*: Botany 5.
- 9. CYTOLOGY AND PHYSIOLOGY, ADVANCED COURSE.—Special laboratory problems in cytology and physiology. Critical discussions of current literature; reports on research work. I, II; (2-5).

Assistant Professor Hottes

Prerequisite: Two years' work in botany, including Botany 3.

- 10. Current Literature.—Reports and discussions upon assigned topics and results of research work. (For advanced and graduate students.) I, II; (1).
- II. INTRODUCTORY COURSE.—Flowering plants, their structure and activities. Lectures; laboratory; field observations; text. I; (5).

Assistant Professor Hottes, Dr. Allee, Mr. Whitten, Miss Park,

Mr. Brigham, Miss Atwell, Mr. Scherfee

14. HEREDITY AND ORIGIN OF SPECIES.—The plant cell; the physiology of its different constituents and the parts these play in

the process of fertilization; various theories of heredity and of species formation. Lectures; demonstrations; laboratory. I; (3).

Assistant Professor Hottes

Prerequisite: One year's work in the University; one semester in botany and zoology.

16. TAXONOMY OF SPECIAL GROUPS.—Laboratory and herbarium work; assigned reading. (The course extends through the year, but the work of each semester is credited separately as 16a and 16b.)

I, II; (5).

Dr. BARRETT, Dr. HAGUE

Prerequisite: Botany 4.

COURSES FOR GRADUATES

After at least one year of approved botanical work graduates may elect any of the courses 3, 5, 7, 8, 9, or 10 for minor credit and any of the courses 3, 7, 8, or 9, with assigned additions for major credit towards an advanced degree.

The following are open only to graduates of liberal botanical training and may, upon approval, be elected for minor or major work.

- IOI. CYTOLOGY.—The influence of external agents on the cell. Special subjects for investigation assigned upon consultation. Reports; discussions of current literature and research results. Twice a week; I, II.

 Assistant Professor Hottes
- 102. Physiology.—The effects of external stimuli on growth and movement. Special subjects for investigation assigned upon consultation. Reports; discussions of current literature and research results. Twice a week; I, II. Assistant Professor Hottes
- 103. Bacteriology.—Morphologic and physiological variation due to treatment; the number, validity, and relationship of species; special saprophytic or parasitic kinds of bacteria, and methods of favoring or combating their activities. Twice a week; I, II.

Assistant Professor RAHN

- 104. Mycology.—Selected groups of fungi. Individual assignments of subjects and problems. Field and laboratory. Twice a week; I, II.

 Dr. BARRETT
- IO6. VEGETABLE PATHOLOGY.—Diseases of plants and disease agents. Special subjects assigned upon consultation. Twice a week; I, II.

 Assistant Professor RAHN, Dr. BARRETT

CERAMICS

RAY THOMAS STULL, E.M., Associate

RALPH KENT HURSH, B.S., Assistant

BARNEY S RADCLIFFE, M.S., Assistant

HENRY HARRISON BARTELLS, Research Assistant

The courses offered by the department of ceramics are designed to give a technical knowledge of the composition and properties of raw materials used in the manufacture of clay wares, cements, and glasses, and of the physical and chemical changes which they undergo during manufacture; manual skill in the manipulation of these materials; and such knowledge of machines and the applications of power as will enable the student to acquire familiarity with the construction and operation of a manufacturing plant; to understand the peculiarities of the materials with which he is to deal; and to install such machinery and introduce such methods of manufacture as will improve the quality and reduce the cost of the wares.

For the more technical work the department occupies a new building especially designed for its needs. The lecture rooms, laboratories, kiln and furnace building, drawing rooms, and library are well equipped.

The relations of the department with the clay working interests of the State are such that investigation is as much a part of its work as is instruction. Consequently, studies of both a purely scientific and a practical nature are continually in progress. Advanced students are permitted to take part in these investigations under the direction of the instructors. Seniors and graduate students are expected to conduct investigations of their own in some line of work in which they are especially interested. (For outline of courses see pages 155 and 156.)

I. CLASSIFICATION AND PHYSICAL TESTING OF CLAYS.—The properties of clays and other ceramic materials; the identification of the varieties met in practical work. Lectures; laboratory. I; (3).

Mr. Hursh, Mr. Radcliffe

Prerequisite: Chemistry 2, 3.

2. Winning and Preparation of Clays.—Commercial methods. I; (3). Mr. Radcliffe

Prerequisite: Chemistry 5b.

3. Industrial Calculations.—The designing and operation of furnaces, kilns, and dryers; temperature measurement. I; (3).

Mr. Hursch

Prerequisite: Mathematics 8; Chemistry 5b; Physics 1 and 3.

4. Drying and Burning.—Methods of drying and burning clay wares; types of construction of industrial kiln plants; chemical and physical processes involved. I; (4).

Mr. Stull

Prerequisite: Ceramics 5.

5. Body Making.—Composition of all classes of ceramic wares; physical and chemical changes produced by the blending of the various ceramic materials; machinery and processes employed in shaping the various products. Lectures; laboratory. II; (5).

Mr. Stull, Mr. Radcliffe

Prerequisite: Ceramics 3.

6. GLAZES.—The production of glazes and enamels; classification; properties and defects common to each class; the effect of variation in composition; modes of application. Lectures; laboratory. *I*; (5).

Mr. Stull

Prerequisite: Ceramics 3, 4, 5.

8. Principles of Glass Manufacture.—The raw materials, preparation, compounding, melting, and shaping of glass; chemical principles involved in the manufacture and decoration of the different types of vitreous silicates. Lectures. II; (3). Mr. Stull

Prerequisite: Ceramics 3.

9. CERAMIC CONSTRUCTION.—Plans, specifications, and estimates of ceramic construction. II; (5). Mr. Stull, Mr. Hursh Prerequisite: G. E. D. 2; Ceramics 3.

10. Cements.—Limes, cements, plaster, sand-lime stone, and other cementing materials; composition; reactions; methods of manufacture and testing. Lectures. I; (3). Mr. Hursh

Prerequisite: Ceramics 3.

II. THESIS.—II; (5). Mr. STULL, Mr. HURSH

12. Designing and Shaping.—Technical designing and shaping from the standpoint of the manufacturer; die construction; laying out of work; templates; master and working molds; pressing; casting; jiggering. II; (3).

Mr. Radcliffe

Prerequisite: Ceramics I or 2.

13. CEMENT LABORATORY.—The preparation of cementing substances; properties; typical reactions involved in the manufacture and use of lime, lime-sand products, pozzuolane, Sorel cement.

natural and Portland cement; the behavior of the hardened products under the influence of the various agencies to which they are subjected in use. *I*; (3).

Mr. Hursh

Prerequisite: Ceramics 10.

14. Continuation of Course 13.—The production of water proof and sea water resisting cements; cement colloids; polychrome pigments for fresco decoration; cement colors; cold water paints. II; (3).

Mr. Hursh

Prerequisite: Ceramics 13.

15. The Preparation of Glass Silicates.—Soda-lime; potash-lime; lead, barium, and zinc silicates; boro silicates; properties of the fused and solidified glasses; practical problems of the glass industry. *I*; (3).

Prerequisite: Ceramics 8.

16. Continuation of Course 15.—Opaque, colored, and optical glasses; the enameling of metals; cast iron; sheet iron; copper. II; (3).

Mr. Stull

Prerequisite: Ceramics 15.

COURSES FOR GRADUATES

Courses open to graduates of courses other than ceramics to be taken as minors: Ceramics 3, 5, 6, 8, 10, 14.

IOI. THE FORMATION OF SILICATES, involving the conceptions of physical chemistry. Lectures; laboratory. Five times a week; I.

Mr. Stull, Mr. Hursh

102. The Technology of the Clay Industries.—Mineralogical constitution of clays; plasticity and the colloidal state; adsorption; pyro-chemical and physical changes; exothermic and endothermic processes; the crystalline and amorphous state of burnt clay; thermal expansion of bodies and glazes; bodies and their interaction with glazes; the composition and constitution of glazes; dissolved and underglaze colors; translucency and opacity; the colors of rare oxides in glazes; eutectic studies; reduction and oxidation phenomena; heat radiation; conduction. Five times a week; I, II.

Mr. STULL

IO3.—TECHNOLOGY OF THE CEMENT AND MORTAR INDUSTRIES.—Fusion curves of lime, silica, lime-iron, lime-alumina, and lime-iron-alumina silicates; the action of catalyzers; crystallization of basic silicates; constitution of cement compounds; hydration and dehydration; thermal studies; colloids of hydration products; white

hydraulic cements; the factor of fineness of grain; pyro-chemical changes. Five times a week; I, II. Mr. Hursh

104. The Technology of Glass.—Fusion curves of glassy silicates; limiting compositions; solubility of the oxides in glasses; devitrification; annealing; optical properties; solubility of glass; viscosity; thermal expansion; pyro-chemical volume changes; reaction of coloring oxides; cooling curves; flashing; interaction between metal surfaces and glasses; oxidation and reduction. Five times a week; I, II.

Mr. Stull

CHEMISTRY

WILLIAM ALBERT NOYES, Ph.D., LL.D., Professor and Director SAMUEL WILSON PARR, M.S., Professor EDWARD BARTOW, Ph.D., Professor CLARENCE WILLIAM BALKE, Ph.D., Assistant Professor EDWARD WIGHT WASHBURN, Ph.D., Assistant Professor DAVID FORD McFARLAND, Ph.D., Assistant Professor GEORGE McPHAIL SMITH. Ph.D., Associate CLARENCE GEORGE DERICK. Ph.D., Associate HENRY CHARLES PAUL WEBER, Ph.D., Associate STUART JEFFERY BATES, Ph.D., Research Associate ELLEN S McCarthy, Ph.D., Instructor DUNCAN ARTHUR MACINNES, Ph.D., Instructor GEORGE DENTON BEAL, Ph.D., Instructor B SMITH HOPKINS. Ph.D., Instructor EARLE KENNETH STRACHAN, Ph.D., Instructor LAMBERT THORP, Ph.D., Instructor CHARLES GEORGE MACARTHUR, M.A., Instructor CARL FERDINAND NELSON, Ph.D., Instructor WILHELM HIRSCHKIND, Ph.D., Instructor RALPH SYDNEY POTTER, M.S., Research Assistant EARL BOWMAN MILLARD, A.M., Assistant GEORGE WALLACE SEARS, M.S., Assistant HARVEY PEACH CORSON, M.S., Assistant OLIVER KAMM, B.S., Assistant JAMES EDGAR BELL, B.S., Assistant HENRY LAWRENCE HUENINK, A.B., Assistant HUBERT LEONARD OLIN, M.S., Assistant JOHN WILLIAM READ, M.S., Assistant CHARLES KAY HEWES, B.S., Assistant

BERT STOVER DAVISSON, A.B., Assistant RAYMOND ADAMS DUTCHER, M.S., A.M., Assistant BRONISLAY ROMAN HONOVSKI, Ph.D., Assistant ERNST KESSLER. Assistant in Glass Blowing HARPER FILER ZOLLER, B.S., Lecture Assistant PAUL STANLEY WOODWARD, B.S., Graduate Assistant ROLAND NORTON MILLER, A.B., Graduate Assistant EDWARD WALLACE ENGLE, B.S., Graduate Assistant ALBERT WAFFLE OWENS, B.S., Graduate Assistant KARL ADOLPH CLARK, A.M., Graduate Assistant GERRIT JOHN VANZOEREN, A.B., Graduate Assistant THOMAS ERNEST LAYING, A.M., Graduate Assistant CHESTER HARMON ALLEN, A.B., Graduate Assistant ERNEST ATKINS WILDMAN, B.S., Graduate Assistant RAYMOND WASHINGTON HESS, A.B., Graduate Assistant ROBERT EARL BAKER, A.B., Graduate Assistant CLINTON EDGAR GILLETTE, M.S., Graduate Assistant LAURENCE VREELAND BURTON, B.S., Graduate Assistant HENRY FRANK SCHNEIDER, A.B., Graduate Assistant ELMER TRYON EBERSOL, A.B., Graduate Assistant

The Department of Chemistry is organized under nine divisions as follows:

Elementary and Inorganic Chemistry

Qualitative Analysis

Quantitative Analysis, including Agricultural and Food Analysis Organic Chemistry

Physiological Chemistry

Animal Nutrition

Physical Chemistry and Electrochemistry

Industrial Chemistry, including Metallurgy, Gas Analysis, and Assaying

Water Chemistry

Each of these divisions is equipped with rooms and apparatus for elementary, advanced, and graduate work. The nature of the work is apparent from an examination of the courses described below.

Students taking chemistry at the University are advised to give at least one year to the subject, and this should include Chemistry I

or 1a, 2, and 3. Those continuing in the second year should take Chemistry 5a and 5b, 5c or 13a. In the third year Chemistry 14 and 9, 9a, 9b, or 9c, 31, and 33 should be taken. With these, more special courses may be taken if desired, but, in general, students are not advised to take the special courses unless they have had the fundamental work represented by the selection given above. Students who desire a training for professional work in chemistry, either as teachers or in its industrial applications, will naturally take the chemical course or the course in chemical engineering.

Students who find it impossible to take more than one semester's work are requested to register for Chemistry I or Ia in the second semester rather than in the first.

I. INORGANIC CHEMISTRY.—The non-metallic elements. Alexander Smith's General Inorganic Chemistry. I or II; (5).

Professor Noyes, Assistant Professor Balke, Dr. McCarthy, Dr. Hopkins, Dr. Nelson

1a. INORGANIC CHEMISTRY.—Lectures; recitations; laboratory. I or II; (4).

Professor Noyes, Assistant Professor Balke, Dr. McCarthy, Dr. Hopkins, Dr. Nelson

Prerequisite: One year of entrance chemistry.

Ib. INORGANIC CHEMISTRY.—Inorganic chemistry. Lectures; recitations; laboratory. (For students in engineering.) I or II; (4). Professor Noyes, Assistant Professor Balke, Dr. McCarthy, Dr. Hopkins. Dr. Nelson

2. INORGANIC CHEMISTRY.—A continuation of Chemistry I. The metallic elements; their classification, compounds, and chemical properties. Lectures; assigned text. Alexander Smith's General Inorganic Chemistry. I or II; (2).

Professor Noves, Assistant Professor Balke, Dr. McCarthy,

Dr. Hopkins. Dr. Nelson

Prerequisite: Chemistry 1; registration in Chemistry 3.

- 3. QUALITATIVE ANALYSIS.—Recitations; laboratory. *I or II;* (3). Dr. Weber, Dr. McCarthy, Dr. Hopkins, Dr. Nelson *Prerequisite:* Chemistry 1; registration in Chemistry 2.
- 4. Qualitative Analysis and the Chemistry of the Metallic Elements.—Class and laboratory work. (For students in engineering.) I; (4). Dr. Weber

Prerequisite: Chemistry 1a or 1b.

5a. ELEMENTARY QUANTITATIVE ANALYSIS.—Gravimetric and vol-

umetric analysis; stoichiometrical relations and the application of the fundamental laws of chemistry to quantitative analysis. Lectures; recitations; laboratory. Talbot's Quantitative Chemical Analysis. (Medical students are given special problems in the latter part of the course.) I; (5). Dr. Smith, Dr. Beal

Prerequisite: Chemistry 2, 3.

5b. Quantitative Analysis.—Continuation of 5a. Methods; the analysis of silicates, metallic compounds, and alloys; advanced qualitative analysis for students in the course in chemistry and chemical engineering. Lectures; laboratory. Treadwell-Hall: Analytical Chemistry, Vol II. II; (5). Dr. Smith, Dr. Beal

Prerequisite: Chemistry 5a.

5c. Food Analysis.—Quantitative organic analysis, with special reference to the examination of food and drug products: alcohols, carbohydrates, fats and oils, animal and vegetable foods, nitrogenous bodies, preservatives, and colors. Sherman's Organic Analysis; "Bulletin 107, rev., U. S. Bureau of Chemistry." II; (3 to 5).

Dr. Beal

Prerequisite: Chemistry 5a or 13a; 9 or 14.

6*. CHEMICAL TECHNOLOGY.—Technological chemistry as illustrated in those industries having a chemical basis for their principal operations and processes; trade journals. Lectures; no laboratory. II; (2).

Assistant Professor McFarland

Prerequisite: Chemistry 5a.

7*. Metallurgy.—Lectures; assigned reading. 1; (3).

Assistant Professor McFarland

Prerequisite: Chemistry 5a.

8. IRON AND STEEL ANALYSIS.—Analyses of all the constituents by both rapid, or technical, and standard methods. II; (3).

Dr. Smith

Prerequisite: Chemistry 5b.

9. Organic Chemistry.—The characteristics of the more typical and simple organic compounds; the important classes of derivatives of carbon. Moore's *Organic Chemistry*. (For students of the medical preparatory course and others desiring a short course.) II; (3).

Dr. DERICK

Prerequisite: Chemistry 3.

^{*}Certain inspection trips will be arranged in connection with courses 6 and 7. Students registered in these courses should take into consideration the expense involved, which will approximate \$15.00 for each course.

9a. Organic Synthesis.—Ultimate organic analysis; the preparation and study of typical organic compounds. Laboratory. I; (2).

Dr. DERICK, Dr. THORP, Mr. KAMM

Prerequisite: Chemistry 3; registration in Chemistry 14, or equivalent.

- 9b. Organic Synthesis and Analysis.—Continuation of 9a.

 II; (2). Dr. Derick, Dr. Thorp, Mr. Kamm

 Prerequisite: Chemistry 9a; registration in Chemistry 14, or
 equivalent.
- 9c. Organic Synthesis.—Typical organic compounds; the organic substances of medicinal value and of physiological importance. Laboratory. (For students in the medical preparatory course and others desiring a brief course.) II; (2).

Dr. Derick, Dr. Thorp, Mr. Kamm

Prerequisite: Chemistry 3; registration in Chemistry 9, or equivalent.

10a. WATER CHEMISTRY.—The history, sources, contamination, and standards of purity of potable waters and waters for industrial purposes. Lectures; practice in analytical methods. II; (3).

Professor Bartow

- 10b. (A modification of 10a to meet the requirements of students in sanitary engineering, registered in connection with Chemistry 2 and 3.) II; (2½). Professor Barrow
- II. Research.—Thesis embodying a thorough review of the literature of the subject; account of work done in the laboratory. The subject should be determined upon and reading begun in the junior year. A minimum of five semester hours is required. (Required for seniors.) *I, II;* (5).

Professors Noves, Parr, Bartow, Assistant Professors Balke, Washburn, McFarland, Dr. Smith, Dr. Derick, Dr. Weber, Dr. McCarthy, Dr. MacInnes, Dr. Beal, Dr. Hopkins, Dr. Strachan, Dr. Thorp, Dr. MacArthur, Dr. Nelson, Dr. Hibschkind

13a. AGRICULTURAL ANALYSIS.—Gravimetric and volumetric analysis; analysis of fertilizers and milk. Talbot's *Quantitative Chemical Analysis*. (For students in agriculture.) *I or II*; (5).

Dr. BEAL, Dr. SMITH

Prerequisite: Chemistry 2, 3.

13b. Advanced Agricultural Analysis.—Applied quantitative

analysis. The analysis of fungicies, limestone, phosphate rock, fuel, and water; determination of the alkali metals; special methods of agricultural analysis. Treadwell-Hall, Analytical Chemistry, Vol. II. (For students who wish to specialize in agricultural chemistry or agricultural experiments.) II; (5). Dr. Beal, Dr. Smith

Prerequisite: Chemistry 5a or 13a.

14. ORGANIC CHEMISTRY.—Lectures; recitations. Noyes's Organic Chemistry. I, II; (3). Professor Noyes

Prerequisite: Chemistry 5a; should be accompanied by Chemistry

ga and gb.

15. Physiological Chemistry.—Enzymes; carbohydrates; salivary digestion; gastric digestion; fats; pancreatic-digestion; intestinal digestion; bile; putrefaction products; feces; blood; milk; epithelial and connective tissues; muscular tissue; nervous tissue; urine. Qualitative and quantitative work on gastric juice, blood, urine, and milk; the clinical aspects of these topics treated thoroughly for the prospective student of medicine. Lectures; demonstrations; conferences; practical work; assigned reading. Hammarsten's Text Book of Physiological Chemistry; Hawk's Practical Physiological Chemistry. (Open to graduates and undergraduates.) I; (5).

Prerequisite: Two years' work in chemistry.

15a. PROBLEMS OF PHYSIOLOGICAL CHEMISTRY.—Colloids; animal oxidations; osmosis; adsorption; selective activity of cells; metabolism; activities of gastro-intestinal tract; enzymes; inorganic nutrition. Lectures; demonstrations; conferences. II; (2).

Dr. MACARTHUR

Prerequisite: Chemistry 15.

16. CHEMISTRY FOR ENGINEERS.—The proximate analysis of coal; determination of calorific power; technical analysis of furnace gases; examination of boiler waters; lubricating oils. (For mechanical engineers.) II; (3).

Professor Parr, Dr. Hirschkind

Prerequisite: Chemistry 1.

- 17. Teachers' Course.—The methods of teaching elementary chemistry. I; (1). Assistant Professor Balke
- 21. QUALITATIVE ORGANIC ANALYSIS.—Systematic methods for identification of pure organic compounds and mixtures. I; (2).

Dr. DERICK

Prerequisite: Chemistry 9a, 9b.

- 22. Animal Chemistry (Nutrition).—The chemical composition of animal products and feeding stuffs. Lectures; conferences; assigned reading; laboratory. *I or II*; (5). Professor Grindley *Prerequisite*: Two years' work in chemistry.
- 27. QUALITATIVE ANALYSIS OF THE RARE ELEMENTS.—The rare elements and their compounds; identification and separation of the elements; formation, solubilities, and chemical reactions of their salts. Assigned reading; laboratory. II; (3).

Assistant Professor BALKE

Prerequisite: Two years' work in chemistry.

31. ELEMENTARY PHYSICAL CHEMISTRY.—Some of the more important principles and methods of physical chemistry and electrochemistry; numerous problems. Lectures; recitations. Senter's Outlines of Physical Chemistry. II; (3).

Assistant Professor Washburn, Dr. Strachan Prerequisite: Chemistry 1, 2, 3; Physics 1 or 2a; Mathematics 8a.

33. ELEMENTARY PHYSICAL CHEMISTRY.—Molecular weight of gases and solutions; chemical equilibrium; the electrical conductivity of solutions and the attendant phenomena within the solution; thermochemistry. (Laboratory to accompany course 31.) II; (2).

Dr. MacInnes, Dr. Strachan

Prerequisite: Chemistry 5a; Physics 2b or 3.

35. ELECTROCHEMISTRY.—Electrochemistry in the industries; patents in selected industries. Lectures; recitations; laboratory; reports. Thompson's Applied Electrochemistry. I; (3 or 5.) (See also Chemistry 102b.)

Dr. MacInnes

Prerequisite: Chemistry 32, 33.

61. INORGANIC PREPARATION.—The preparation of chemical products from raw materials; manufacture and testing of pure chemicals; fractionation; other processes of the manufacturing chemist. Laboratory. II; (2).

Assistant Professor McFarland

Prerequisite: Chemistry 5a.

- 65. TECHNICAL GAS AND FUEL ANALYSIS.—Examination of gases, gas mixtures, flue gases, and fuels; determination of calorific values; calculation of efficiencies. I; (2). Professor Parr, Dr. Hirschkind Prerequisite: Chemistry 5a.
- 66. Technology of Gases.—The manufacture, constituents, and uses of the various forms of gaseous fuel; calorimetry; photometry;

the more usual methods of analysis. Lectures; reading; reports; laboratory. II; (1). Professor Parr

Prerequisite: Chemistry 65.

68a. Analysis of Glasses and Glazes.—Special problems connected with the pottery industry. (For students in ceramics.) *I*; (3).

Dr. Smith

Prerequisite: Chemistry 5b.

68b. Cement Chemistry.—The analysis of cements; cement materials; pottery bodies. (For students in ceramics.) I; (3).

Dr. SMITH

Prerequisite: Chemistry 5b.

69. Assaying.—The fire assay of lead, gold, and silver ores. Fluxes; reagents; charges; typical ores; practice in use of the crucible and muffle furnaces and in the manipulations connected with fire assaying. *I*; (2). Assistant Professor McFarland

Prerequisite: Chemistry 5a and Geology 5.

70. ADVANCED ASSAYING AND ORE TESTING.—The assay of ores of platinum, tin, copper; bullion assay; free milling, amalgamation, and cyaniding tests. (A continuation of Chemistry 69.) II; (2).

Assistant Professor McFarland

Prerequisite: Chemistry 69.

71. Wet Methods of Assay.—Technical methods for copper, lead, zinc, antimony, arsenic, tin in ores and metallurgical products.

Laboratory. I; (2). Assistant Professor McFarland

Prerequisite: Chemistry 5b.

72. Paints, Oils, Turpentines, Varnishes, and Protective Coverings for Wood and Metals:—Lectures and laboratory. II; (.). Professor Parr

Prerequisite: Chemistry 5b, 14.

73. ASPHALT, TAR, AND OIL RESIDUES.—Their sources, characteristics, composition, and examination; binders, dust preventatives, etc., used in road construction. (For students in highway engineering.)

II; (2). Professor PARR

Prerequisite: Chemistry 3 or 4.

76. CALORIMETRY OF FUELS.—Methods for determining the heat values of solid, liquid, and gaseous fuels. (An advanced course.) I, II; (1-3).

Professor PARR

77. COMPOSITION AND CLASSIFICATION OF COAL.—Classification,

changes in composition, weathering, spontaneous combustion, formation of mine gases. Lectures; assigned reading. II; (1).

Professor PARR

78. METALLOGRAPHY.—Constitution and microstructure of metals and alloys and the relations between their properties, chemical and mechanical treatment, and structure. Lectures; reading; and laboratory. II; (2).

Assistant Professor McFarland

93. JOURNAL MEETING.—(For juniors, seniors, and graduates.) I, II; (1). All members of the teaching staff in the chemical department.

For Juniors, Dr. Derick

For Seniors, Assistant Professor McFarland

COURSES FOR GRADUATES

Graduate students whose major subject is in some department other than chemistry, before taking graduate work for credit in this department, must have had the equivalent of 15 university credits in chemistry, and the work covered must have included satisfactory work in general chemistry and in qualitative and quantitative analysis. Such students are advised to take Chemistry 31, 33, 102, 102a, 5b, 5c, 14, 9a and 9b. Courses of a more special nature will not, as a rule, be accepted for graduate work unless preceded by one of the above courses.

For students in agriculture, Chemistry 5a and 13a will not be accepted for graduate credit.

Graduate students who are candidates for an advanced degree in chemistry must have had the equivalent of 30 university credits in chemistry, and this must include satisfactory courses in general chemistry, qualitative and quantitative analysis, physical chemistry, and organic chemistry. Before receiving the degree of Doctor of Philosophy such students are expected to complete work equivalent to courses 31, 33 (or 102 and 102a), 14, 9a, 9b, 101, and 111. They are advised to take at least brief courses in gas analysis, iron and steel analysis, water analysis, assaying, and chemical technology.

For students in chemistry, 5a, 13a, 9, and 9c will not be accepted for graduate credit and 9a, 9b, 14, 31 and 33 will be accepted only from students entering the Graduate School with the equivalent of 30 university credits in chemistry.

[101. HISTORY AND THEORIES OF CHEMISTRY.—Twice a week; I. Not given in 1912-13.

Dr. Smith]

102. ADVANCED PHYSICAL CHEMISTRY.—Twice a week; I, II.

(This course and course 102a are intended to cover a period of two years.)

Assistant Professor Washburn

Prerequisite: Chemistry I, 2; Physics I, 3; Mathematics 8a or 7 and 9. An elementary knowledge of organic and physical chemistry is desirable.

[102a. Advanced Physical Chemistry.—Chemical equilibrium; the Phase Rule; certain portions of thermochemistry; photochemistry; the thermodynamics of electrochemistry. (A continuation of 102, with which it alternates.) Nernst's Theoretical Chemistry. Twice a week; I, II. Not given in 1912-13.

Assistant Professor WASHBURN

Prerequisite: The same as course 102.]

IO2b. ADVANCED ELECTROCHEMISTRY.—The modern theories of solution and the principles of thermodynamics in their application to the problems of electrochemistry; electrolytic conductivity and transference; electro-motive force; the energy principles underlying the transformation of chemical and electrical energy; the recent advances in the electrolysis of fused electrolytes and the applications of electricity to gaseous reactions at high temperature. Le-Blanc's Electrochemistry. Three times a week; II. Dr. MacInnes

(Open to undergraduates having the necessary preparation.) *Prerequisite:* Chemistry 31, 33; Mathematics 8a or 7 and 9.

102c. Advanced Physical and Electrochemistry.—The applications of physico-chemical methods to special problems. Laboratory.

Twice a week; I.

Assistant Professor Washburn

Prerequisite: Chemistry 31, 33; registration in Chemistry 102b, or completion of Chemistry 102, 102a, or 102b; Mathematics 8a or 7 and 0.

102d. ELECTROCHEMISTRY.—Theoretical and applied electrochemistry, with emphasis on the technical side of the subject. (For students of electrical engineering.) Once a week; I, II.

Dr. MACINNES

102e. Special Topics in Physical Chemistry.—Seminar. Subject for 1912-13: Relations Between Chemical Constitution and Physical Properties. Smile's Chemical Constitution and Physical Properties. Once a week; I. Assistant Professor Washburn

Prerequisite: Chemistry 102 or 102a.

103. Advanced Inorganic Chemistry.—Descriptive inorganic chemistry; the rarer elements; the periodic system. Lectures, with or without laboratory. Two to five times a week; I, II.

Assistant Professor BALKE

103a. Advanced Analytical Chemistry.—Special topics. Lectures, with or without laboratory. One to five times a week; II.

Dr. Smith

103b. SPECIAL TOPICS IN INORGANIC CHEMISTRY.—Seminar. Werner's Neuere Anschauungen auf dem Gebiete der anorganischem Chemie. Once a week; I, II.

Dr. SMITH

104. Advanced Organic Chemistry.—Seminar. Kekule's linking theory, stereochemistry, stearic hindrance, molecular rearrangements, tautomerism, condensation, carbohydrates, ureids. Special attention to the application of modern physical chemistry to the study of organic problems, especially the application of chemical kinetics to tautomerism and the application of physical properties to the determination of chemical structure. Lectures; discussions. Twice a week; I, II.

Dr. Derick

[104a. Advanced Organic Chemistry.—(Continuation of 104, with which it alternates.) Twice a week; I, II. Not given in 1912-13.

Dr. Derick]

105. Advanced Physiological Chemistry.—Selected portions of physiological chemistry not covered by Chemistry 15. Three times a week; II.

Dr. MacArthur

105a. ADVANCED PHYSIOLOGICAL CHEMISTRY.—Special investigations. Laboratory. Two to seven times a week; II.

Dr. MACARTHUR

105b. Advanced Physiological Chemistry.—Recent contributions of importance in the field of physiological chemistry. Once a week; I, II.

Dr. MacArthur

IO6. Animal Chemistry (Nutrition).—The recent advances in the chemistry of nutrition of the lower animals; the chemistry of the functional products: the flesh, fat, milk, and wool of the more common domesticated animals. Lectures; conferences; assigned reading; laboratory. Five times a week; I, II.

Professor Grindley

Prerequisite: Two years' work in chemistry.

107. CALORIMETRY.—Standards and methods. One to three times a week; I, II. Professor Park

108. Metallography.—The constitution and microstructure of metals and alloys; the relations between their properties, chemical and mechanical treatment, and structure. Lectures; reading, laboratory. Twice a week; II. Assistant Professor McFarland

Prerequisite: Chemistry 7.

IIO. WATER SUPPLIES.—The sources of contamination of water supplies and the purification of water for potable or technical use. Five times a week; I, II. Professor Barrow

III. THESIS WORK.—A thesis will usually be required of students taking the Master's degree and will always be required of students taking the degree of Doctor of Philosophy. (For a description of undergraduate work leading to a thesis, see Chemistry II.)

Work may be taken in the following subjects:

PHYSICAL AND ELECTROCHEMISTRY

Assistant Professor Washburn

INORGANIC CHEMISTRY

INDUSTRIAL CHEMISTRY

Assistant Professor Balke, Dr. Smith, Dr. Weber
Analytical Chemistry Dr. Smith
Food Chemistry Dr. Beal
Organic Chemistry Professor Noyes, Dr. Derick, Dr. Thorp
Water Chemistry Professor Bartow

Animal Chemistry (Animal Nutrition)
Physiological Chemistry

Professor Grindley
Dr. MacArthur

Professor PARR, Assistant Professor McFarland

CIVIL ENGINEERING

IRA OSBORN BAKER, C.E., D. Eng., Professor

FRANK OLIVER DUFOUR, C.E., Assistant Professor, Structural Engineering

CHARLES WESLEY MALCOLM, C.E., Assistant Professor, Structural Engineering

ALLEN BOYER McDaniel, B.S., Assistant Professor James Elmo Smith, C.E., Associate

CARROLL CARSON WILEY, C.E., Instructor

GEORGE WELLINGTON PICKELS, JR., C.E., Instructor

NEAL BRYANT GARVER, C.E., Instructor

WILLIAM HORACE RAYNER, B.S., Instructor

RAYMOND EARL DAVIS, B.S., Instructor

I. ROADS AND PAVEMENTS.—Road improvement in country highways; means of securing it; construction of earth, gravel, and macadam roads; methods of construction, cost, durability, and desirability of the various kinds of pavement; grades; cross-sections;

assessment of cost; maintenance and cleaning. Baker's Roads and Pavements. II; (2). Mr. WILEY

Prerequisite: Mathematics 4; General Engineering Drawing 1, 2; Civil Engineering 21, 22, 23.

4. RAILROAD SURVEYING.—The principles of economic location and the construction of railways; railway appliances and maintenance-of-way practice. Field practice: Preliminary and location surveys of a line of railroad of sufficient length to secure familiarity with the methods of actual practice. Each student makes a complete set of notes, maps, profiles, calculations, and estimates. Nagle's Field Manual for Railroad Engineers. I; (5).

Mr. Smith, Mr. Wiley

Prerequisite: Civil Engineering 21, 22, 23.

4a. RAILROAD SURVEYING.—The first eleven weeks of course 4, for students in municipal and sanitary engineering. I; (3).

5r. Masonry Construction.—Baker's Masonry Construction. I;
(4). Professor Baker, Assistant Professor McDaniel

Prerequisite: Theoretical and Applied Mechanics 7, 8, 9, 10; Civil Engineering 20.

51. CEMENT LABORATORY PRACTICE.—Waterbury's Cement Laboratory Manual. 1; (1). Assistant Professor McDaniel.

Prerequisite: Theoretical and Applied Mechanics 7, 8, 9, 10; Civil Engineering 20; registration in 5r.

6. MASONRY AND REINFORCED CONCRETE DESIGN.—The design of reinforced-concrete beams, columns, slabs; arches, dams, retaining walls; masonry structures. II; (2).

Assistant Professor McDaniel, Mr. Smith

Prerequisite: Civil Engineering 5.

6a. THEORY AND DESIGN OF REINFORCED CONCRETE.—(For students in architectural engineering, municipal and sanitary engineering, and railway civil engineering.) II; (2).

Assistant Professor Dufour, Mr. GARVER

Prerequisite: Civil Engineering 5, or Architecture 5.

IO. Surveying.—Areas with chains and compass; U. S. public land surveys; principles of re-establishing corners; use of transit in finding distances, areas, and in laying out buildings; use of the level in finding profiles and contours. (For students in architecture, architectural engineering, electrical engineering, and mechanical engineering.) Pence and Ketchum's Surveying Manual; II; (2).

Mr. WILEY

Prerequisite: Mathematics 4; General Engineering Drawing 1, 2; Physics 1, 3.

12. Bridge Analysis.—The computation of the stresses in the various forms of bridge trusses, by algebraic and graphic methods, under different conditions of loading. Dufour's *Bridge Engineering*, Part One. I; (2). Assistant Professor Dufour, Mr. Garver

Prerequisite: Theoretical and Applied Mechanics 7, 8, 9, 10; and for civil engineering students, Civil Engineering 20, and for architectural engineering students, Architecture 5.

13. Bridge Details.—Inspection of a highway bridge; computation of weight and critical investigation of a highway bridge from detailed shop-drawings; detailed estimate of cost; standard details for bridges. I; (2). Assistant Professor Malcolm, Mr. Garver Prerequisite: Civil Engineering 12.

14. Bridge Design.—Individual design of a railroad plate girder and a truss span, with sections proportioned and details worked out, followed by a complete set of drawings. Dufour's Bridge Engineering, Part Two. II: (5).

Assistant Professor Malcolm, Mr. Garver

Prerequisite: Civil Engineering 12, 13.

14a. Bridge Design.—Part of course 14 above, for railway civil engineering students. II; (2). Assistant Professor Malcolm

14b. Building Design.—Design of steel-frame office buildings; estimate of cost. (For architectural engineering students.) II; (2).

Assistant Professor Malcolm

Prerequisite: Civil Engineering 12, 13.

15. Advanced Bridge Analysis.—The computations of stresses and deflections of continuous, draw, cantilever, suspension, and metal-arch bridges; the statically-indeterminate stresses of framed structures. Merriman and Jacoby's Roofs and Bridges, Part Four. II; (2).

Assistant Professor Dufour

16. Engineering Contracts and Specifications.—The law of contract; examples of general and technical clauses used in engineering specifications. Johnson's Engineering Contracts and Specifications. II; (2).

Assistant Professor Dufour, Mr. Smith, Mr. Garver Prerequisite: Civil Engineering 5, 12, 13; Municipal and Sanitary Engineering 2, 3.

18. Theory of Reinforced Concrete.—Study of result of experiments. I; (1). Assistant Professor Dufour

Prerequisite: Mechanical Engineering 1, 11; Chemistry 1; Physics 1, 3; Theoretical and Applied Mechanics 7, 8, 9, 10; Civil Engineering 5, 12, 13.

20. Graphic Statics.—Elements of graphic statics; determination of stresses in roof and bridge trusses and in the braced bent. Malcolm's *Elements of Graphic Statics*. II; (2).

Mr. SMITH, Mr. GARVER

Prerequisite: Mathematics 2, 4, 6; Theoretical and Applied Mechanics 7, 8, 9, 10; General Engineering Drawing 1, 2.

21. Surveying.—The theory, use, and adjustment of the compass, level, transit, plane table, and sextant. Field work; the determination of distances by pacing and with the chain and tape; the determination of areas with the compass, transit, and plane table; profile leveling. The U. S. land survey methods, and court decisions relating to the re-establishment of corners, boundaries, partition of land, interpretation of deeds, and in city and farm surveying. Tracy's Plane Surveying; Pence and Ketchum's Surveying Manual. 1; (5).

Mr. Pickels, Mr. Rayner, Mr. Davis

Prerequisite: General Engineering Drawing 1, 2; Mathematics 4.

22. Topographic Surveying.—The theory and use of the stadia and other instruments used in making a topographic survey; methods; topographic drawing; a complete topographic survey based on a system of triangulation including the calculations, and platting and completing the map; precise measurement of bases and angles. Tracy's Plane Surveying; Pence and Ketchum's Surveying Manual. II; (4).

Mr. Pickels, Mr. Rayner, Mr. Davis

Prerequisite: Civil Engineering 21; General Engineering Draw-

ing 1, 2; Mathematics 4.

23. RAILROAD CURVES.—The geometry of the circle as applied to railroad curves; the methods of locating curves in the field. Nagle's Field Manual for Railroad Engineers. II; (1).

Mr. Pickels, Mr. Rayner, Mr. Davis

Prerequisite: Civil Engineering 21, 22; General Engineering Drawing 1, 2; Mathematics 4. Taken with C. E. 22.

24. Metal Structures.—The design and calculation of stresses in mill and steel-skeleton buildings. I; (1).

Assistant Professor Malcolm

Prerequisite: Civil Engineering 12, 13, 20.

25. Seminar.—Reading and discussion of papers. Each student

presents one major and two minor papers upon assigned topics, and participates in the discussion of other papers. II; (1).

Professor Baker

Prerequisite: Full senior standing in Civil Engineering.

30. Thesis.—First semester: Preliminary work, with weekly conferences; second semester: Specified hours for work and conferences. I; (1); II; (2). Instructor assigned by Professor Baker Prerequisite: Full senior standing in Civil Engineering.

COURSES FOR GRADUATES

Entrance upon graduate work in civil engineering presupposes the full undergraduate course in that subject.

107. Bridge Design.—The determination of the stresses in swing, cantilever, and suspension bridges; structural details; shop equipment; methods of fabrication. Inspection of and report upon bridge shops or work in progress. Three times a week; I or II.

Assistant Professor Durour

IIO. METALLIC BUILDING CONSTRUCTION.—The design of the metal skeleton of buildings for various purposes. Conferences, problems, and inspection of construction work in progress. Three times a week; I or II.

Assistant Professor Malcolm

II5. REINFORCED-CONCRETE DESIGN. — The materials, design, forms, and erection of reinforced-concrete structures. Three times a week; I or II. Assistant Professor McDaniel

THE CLASSICS

HERBERT JEWETT BARTON, A.M., Professor, Chairman CHARLES MELVILLE MOSS, Ph.D., Professor WILLIAM ABBOTT OLDFATHER, Ph.D., Associate Professor ARTHUR STANLEY PEASE, Ph.D., Associate Professor HOWARD VERNON CANTER, Ph.D., Associate

Majors

The requirements for a major in the classics have been defined as follows:

A major in the classics shall consist of 30 hours in Greek and Latin, of which at least 12 shall be in the secondary language, and the remaining hours in the primary language. Only those courses may count toward the major in the classics which count toward a major in Latin and Greek respectively.

A major in Greek consists of 24 hours, not including Greek 1, 17, 18, 19.

A major in Latin consists of 24 hours, not including Latin 12. Latin 1 may be counted for half credit only.

Honors

For honors in Greek the major shall be the ordinary one of 24 hours, as defined above; the minor shall be Latin and one other foreign language, or history, or philosophy, or English literature. Neither minor shall consist of less than 9 hours, and the two together must aggregate not less than 24 hours. No course may be counted toward these minors which is not counted toward a major by the department concerned.

For honors in Latin the major shall consist of 24 hours and shall include Latin 14 and 16; the minor shall be at least one other foreign language, preferably Greek, and one of the following: English literature, a modern language, history, or philosophy, with the same conditions as in the case of Greek.

GREEK

COURSES FOR UNDERGRADUATES

Courses I to 4 inclusive are designed to meet the needs of students who cannot present Greek for entrance and yet wish to study the language.

I. BEGINNING GREEK: Grammar and Reader.—Xenophon's Anabasis, book 1. I, II; (4).

Dr. Canter

2. New Testament Greek.— I, II; (2). Professor Moss

3. Xenophon.—Anabasis, books II-IV. I; (3).

Associate Professor OLDFATHER

Prerequisite: Greek 1.

4. Homer.—Six books of the Iliad. II; (3).

Associate Professor OLDFATHER

Prerequisite: Greek 3.

5. HERODOTUS: THE LYRIC POETS.—I; (3). Professor Moss Prerequisite: Greek 4.

6. Thucydides.—Books VI-VII. II; (3).

Assistant Professor PEASE

Prerequisite: Greek 5 or 7.

[7. The Drama.—1; (3). Not given in 1912-13.

Professor Moss

Prerequisite: Greek 4.]

[8. Plato.—Selected dialogues, including *Phaedo*; the *Apology*. II; (3). Not given in 1912-13. Professor Moss

Prerequisite: Greek 5 or 7.]

14. ADVANCED GREEK PROSE COMPOSITION .-- II; (1).

Professor Moss

Prerequisite: Greek 6 or 8.

GREEK LIFE AND LITERATURE IN ENGLISH

(Courses 16-20 presuppose no knowledge of Greek and are open to all students except freshmen.)

16. The Private and Public Life of the Greeks.—Lectures illustrated by photographs and slides; prescribed readings. I; (1).

Professor Moss

- 17. Greek Poetry in Translations.—I; (2). Professor Moss
- 19. Greek Drama in Translations.—II; (2). Professor Moss
- 20. HISTORY OF GREECE.—I; (3). (This course is described by the department of history as History 5.)

Associate Professor OLDFATHER

Prerequisite: One course in history or the classics.

COURSE FOR ADVANCED UNDERGRADUATES AND GRADUATES

21. Beginning Greek.—Elementary composition and grammar; lectures on Greek literature. *I, II;* (4). Professor Moss

COURSES FOR GRADUATES

Preparation for graduate work in Greek should include two years of college Greek in addition to entrance requirements,

103. Principles of Comparative Grammar.—This course may be counted either for Greek or Latin credit. Three times a week; I.

Dr. CANTER

104. Homer and the Homeric Question.—Twice a week; I, II; (Alternates with 105.)

Associate Professor Oldfather

[105. Plato and Aristotle.—Twice a week; I, II. Not given in 1912-13. Associate Professor Oldfather]

106. GREEK DRAMA.—Twice a week; I, II. Professor Moss [107. GREEK ORATORY.—Twice a week; I, II. Not given in 1912-13. Professor Moss]

LATIN

FIRST-YEAR COURSES

I. PLINY AND VERGIL.—Selections from Pliny's Letters and the Aeneid. I, II; (4). Assistant Professor Pease, Dr. Canter Prerequisite: Three entrance units in Latin.

2. LIVY, PLAUTUS, AND TERENCE.—Selections from Livy; the Captivi of Plautus; the Phormio of Terence. I, II; (4).

Professor Barton

Prerequisite: Four entrance units in Latin.

SECOND-YEAR COURSES

3. SALLUST AND CICERO.—Selections from the Jugarthine War; De Senectute. I; (3).

Dr. Canter

Prerequisite: Latin 2.

- 4. CATULLUS AND HORACE.—Selections from the lyrics of Catullus and the Odes of Horace. II; (3). Professor Barton Prerequisite: Latin 2.
- 5. LATIN COMPOSITION.—Grammatical drill; practice in the simpler forms of expression. I, II; (1). Dr. CANTER Prerequisite: Latin 1 or its equivalent.

ROMAN LIFE AND LITERATURE IN ENGLISH

(Courses 12 and 13 presuppose no knowledge of Latin; open to all students except freshmen.)

12. VERGIL AND HORACE IN ENGLISH TRANSLATIONS.—I; (1).

Professor Barton

- 13. Roman Life.—The family; amusements; education; morals; society; monuments. Lectures, illustrated by photographs and slides. II; (1). Professor Barton
- 19. ROMAN HISTORY.—II; (3). (This course is described by the department of history as History 6.)

 Dr. Canter Prerequisite: One course in history or the classics.

COURSES FOR ADVANCED UNDERGRADUATES

7. HORACE AND JUVENAL.—Selections from the Satires and Epistles of Horace; selected Satires of Juvenal. I; (3).

Assistant Professor Pease

Prerequisite: 12 hours' credit in Latin.

8. Tacitus.—The Annals, books I-VI. II; (3).

Assistant Professor PEASE

Prerequisite: 12 hours' credit in Latin.

9. Teachers' Course.—The purpose and methods of preparatory Latin instruction; the teacher's preparation. II; (2).

Professor Barton

Prerequisite: 18 hours' credit in Latin. A portion of this requirement may be waived for those who have taught Latin.

IO. LATIN COMPOSITION.—The leading principles; imitation of assigned models. I; (2). Professor Barton

Prerequisite: 12 hours' credit in Latin, including Latin 5 or its equivalent.

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

14. SENECA.—Selections from his letters and tragedies. I; (3).

Professor Barton

Prerequisite: 18 hours' credit in Latin.

16. MARTIAL AND SUETONIUS.—Selections. II; (3).

Associate Professor OLDFATHER

Prerequisite: 18 hours' credit in Latin.

COURSES FOR GRADUATES

Students desiring to take graduate work in Latin should have had at least three years of college Latin in addition to the Latin presented to meet entrance requirements.

- IOI. PRINCIPLES OF COMPARATIVE GRAMMAR.—(The same as Greek 103.) Three times a week; I. Dr. Canter
- 103. CICERO.—De Natura Deorum and De Divinatione. Twice a week; I.

 Assistant Professor Pease
 - 104. PALAEOGRAPHY.—Once a week; I.

Assistant Professor PEASE

- [105. LATIN POETRY.—Twice a week; II. Not given in 1912-13.
 Assistant Professor Pease]
- 106. LATIN COMEDY.—Twice a week; I, II.

Associate Professor OLDFATHER

107. Epigraphy.—Twice a week; II.

Assistant Professor Pease

108. TACITUS.—The Histories. Twice a week; II.

Professor BARTON

- 109. Vergil.—Twice a week; II. Assistant Professor Pease
- IIO. SEMINAR.—Once a week; I, II.

Associate Professor Oldfather, Assistant Professor Pease, and other members of the department

COMMERCIAL LAW

(See Economics and Accountancy.)

DAIRY HUSBANDRY

WILBUR JOHN FRASER, M.S., Professor, Dairy Husbandry
NELSON WILLIAM HEFBURN, M.S., Associate, Dairy Manufactures
ROYDEN EARL BRAND, M.S., Associate, Dairy Husbandry
HORATIO NEWTON PARKER, Instructor, Municipal and Sanitary Dairyina

LEROY LANG, M.S., Instructor, Dairy Manufactures
WILLIAM TRUMAN CRANDALL, B.S., Instructor, Milk Production
RAY STILLMAN HULCE, B.S.A., Assistant, Milk Production
OLIVER ARNOLD KELLER, B.S., Assistant, Dairy Manufactures
HARRISON AUGUST RUEHE, B.S., Assistant, Dairy Manufactures
FRANK ASHMORE PEARSON, B.S., Assistant, Dairy Husbandry
WILLIAM FIRTH WELLS, B.S., Assistant, Municipal Dairying

COURSES FOR UNDERGRADUATES

City Milk Supply: Dairy Husbandry 8, 11
Dairy Cattle: Dairy Husbandry 2, 16, 17, 21
Manufactures: Dairy Husbandry 1, 3, 7, 19, 22

- I. ADVANCED MILK TESTING.—Official testing; inspectors' methods; tests for purity and adulteration; lactometer; acid tests; tests for preservatives; butter analysis; moisture, salt, and fat tests; Lectures; assigned readings; laboratory practice. (Alternates with Dairy Husbandry 16 if desired.) I; (3). Mr. Hepburn, Mr. Lang
- 2. Dairy Cattle.—Dairy type and its relation to milk and butter fat production; origin and history of breeds, their characteristics, type and adaptability to the various markets and climatic conditions; use of breed score card; prominent families and individuals in principal herds; herd improvement; selection of animals on performance and breed records and physical conformation; grading up by use of superior sires. Lectures; recitations; judging. I; (5).

Mr. Crandall 3. Elements of Milk Testing.—The composition of milk and milk products; milk and cream testing; care of milk and cream on the farm. Lectures on the use of the hand separator. I, II; (1).

Mr. Hepburn, Mr. Lang, Mr. Ruehe
7. Butter Making and Factory Management.—Cream receiving and ripening; pasteurization; use of commercial starters; churning, salting, working, and marketing of butter; butter scoring; separators; special problems for the manufacture of butter; private and co-operative management of creameries; centralizers' sys-

tems; creamery accounting and business methods; refrigerating; ice cream making; location and planning of creamery buildings. Lectures; assigned readings; laboratory practice. II; (5).

Mr. HEPBURN

Prerequisite: Dairy Husbandry 1.

8. City Milk Supply.—Producing and marketing clean milk for public consumption; sanitation of the dairy barn and milk house; scoring and inspection of dairies; standardization, bottling, transportation, and delivery of milk; communicable disease; value of milk as a food; milk beverages; certified milk; milk commissions; legal regulations of cities and states. (Alternates with Dairy Husbandry II if desired.) II; (3).

Mr. Parker

Prerequisite: Dairy Husbandry 1.

11. DAIRY BACTERIOLOGY.—The relation of bacteria to the dairy industry; changes commonly effected in milk by bacteria; market milk; inspected milk; certified milk; pasteurized milk; bacteria characteristic of different groups; bacteria producing milk of unusual character; preserved milks; butter; oleomargarine; cheese. (Alternates with Dairy Husbandry 8 if desired.) II; (3).

Mr. Parker

Prerequisite: Dairy Husbandry 1; Botany 5 or 12.

12. INVESTIGATION AND THESIS.—Professor Fraser, Mr. Hepburn, Mr. Parker

16. FEEDING DAIRY CATTLE.—Compounding rations for dairy cows; preparation of feeds; study of station feeding tests; effect of feeds on milk products; calf raising, feeding, and general care; barn arrangement for storage and feeding; types of mangers; silos, location and types. Opportunity given to study the feeding of the University dairy herds as well as the working of the types of silos in use. (Alternates with Dairy Husbandry I if desired.)

I; (3). Professor Fraser, Mr. Hulce

Prerequisite: Dairy Husbandry 3 and Animal Husbandry 5, or their equivalents.

17. Advanced Study of Dairy Breeds.—Origin and history; detailed history of prominent families and noted individuals, their characteristics and producing abilities; pedigree work and performance records; advanced registry systems; problems peculiar to the breeder of pure-bred dairy cattle. Lectures; assigned readings; seminar work. II; (2).

Mr. Crandall

Prerequisite: Dairy Husbandry 16, 3.

- 19. FARM DAIRYING.—Systems of creaming milk; the care and use of the hand separator; the various makes of machines; farm buttermaking; ripening cream; churning, working, and marketing butter on the farm. I; (2). Mr. Hepburn, Mr. Lang, Mr. Ruehe Prerequisite: Dairy Husbandry I.
- 21. Systems of Dairy Farming.—Relation of the cow and the herd to profits; how to establish and perpetuate a dairy herd of the highest efficiency; economy of crops and rations; systems of cropping; organization of farm; location and arrangement of buildings and lots; farm accounts, records, and inventories; markets; care and disposal of milk at the greatest profit. II; (5).

Professor Fraser, Mr. Brand

Prerequisite: Dairy Husbandry 2, 16.

22. Cheese Making.—Ripening and setting milk; cutting, cooking, and dipping curd; cheddaring, milling, matting, and salting curds; pressing and curing cheese; the different varieties of cheese; practice in making more common varieties. *I*; (3).

Mr. Lang, Mr. Ruehe

Prerequisite: Dairy Husbandry 1.

COURSES FOR GRADUATES

IOI. ECONOMIC MILK PRODUCTION.—Differences in the efficiency of dairy cows, cause and effect of the same, and the relation this bears to successful dairy farming. Twice a weck; I, II.

Professor Fraser

102. Research.—The investigation in progress in the dairy herds of the state. Twice a week; I, II. Professor Fraser

DRAWING, GENERAL ENGINEERING

HARVEY WILLARD MILLER, M. E., Associate ROBERT KENT STEWARD, C.E., Instructor Francis Marion Porter, M.S., Instructor HAROLD ORDWAY RUGG, C.E., Instructor HARVEY HERBERT JORDAN, B.S., Instructor ROY RUDY CARTER, B.S., Assistant WALTER STEPHEN NELSON, Half-time Assistant

1. ELEMENTS OF DRAFTING.—Lettering; isometric oblique and perspective drawing; orthographic projection; machine sketching; working drawings. Lettering: mechanical styles and the making of name plates and titles for mechanical drawings. Mechanical draw-

ing: 12 plates from copy, with tracings of each, and 6 plates from models, with tracings of each. Dimensioned sketches from parts of standard machines, followed by complete working drawings. Tracings duplicated in blue-print form. Time sketches of the equipment in the shops and laboratories; Miller & Steward's Plate Specifications. I; (4).

Mr. Miller, Mr. Steward, Mr. Porter, Mr. Rugg, Mr. Jordan, Mr. Carter, Mr. Nelson

2. Descriptive Geometry.—The point, line, and plane; the properties of surfaces; intersections and developments. (For architects, perspective instead of intersections and developments.) Practical problems. Recitations precede the work in the drawing room at each period. Three drawing room plates, 2 hours each, 5 problems per plate, and 2 home plates, 5 problems each, constitute each week's work. Miller's Descriptive Geometry. II; (4).

Mr. Miller, Mr. Steward, Mr. Porter, Mr. Rugg, Mr. Jordan, Mr. Carter, Mr. Nelson

Prerequisite: Solid geometry, college algebra, plane trigonometry.

ECONOMICS

(Including Accountancy)

(See also History, Political Science, and Sociology.)

DAVID KINLEY, Ph.D., LL.D., Professor

MAURICE HENRY ROBINSON, Ph.D., Professor

ERNEST RITSON DEWSNUP, A.M., Professor

ERNEST LUDLOW BOGART, Ph.D., Professor

NATHAN AUSTIN WESTON, Ph.D., Assistant Professor

JOHN CHRISTIE DUNCAN, Ph.D., Assistant Professor

SIMON LITMAN, D.Jur. Pub. et Rer. (Cam.), Assistant Professor

JOHN GIFFIN THOMPSON, Ph.D., Instructor

OSCAR ROSS MARTIN, A.B., Assistant

GEORGE WILLIAM DOWRIE, A.M., Assistant

CHARLES MANFRED THOMPSON, A.M., Assistant

ERNEST ALBERT RICH, Student Assistant

The department of economics includes general economics, economic history, finance, commerce, commercial law, industry, railway administration, and accountancy.

Courses 7, 22, 26, and 27, English Economic History, the Eco-

nomic History of the United States, Economic Resources, and Modern Industries, are open to freshmen without previous requirement. Courses numbered 101 and above are open to graduate students only.

Courses 4a, 4b, 5, 8, 10, 11, 12, 13, 17, 21, 29, 30, 41, 42, 43, and 45 are open to graduates and advanced undergraduates.

Honors

For honors in economics, at least thirteen of the twenty-four hours required in the major subject shall be in courses requiring Economics I as a prerequisite.

One of the minors shall be selected from the following subjects: history, political science, sociology, and accountancy. The other minor shall be selected with the approval of the department.

I. PRINCIPLES OF ECONOMICS.—I; (5).

Assistant Professor Weston and others

Prerequisite: At least thirty hours of university work.

2. Principles of Economics.—(Section A open to junior and senior science and engineering students only; section C open to junior and senior agricultural students only.) I; II; (2).

I; Professor Robinson, Professor Bogart, Dr. Thompson, Mr. Dowrie

II; Professor Dewsnup, Dr. Thompson, Mr. Dowrie

3. Money and Banking.—The history and theory of money, credit, and banking. II; (3). Assistant Professor Weston Prerequisite: Economics 1.

[4a. Financial History of the United States to the Civil War.—Colonial and federal finance; currency, banking, tariff, and fiscal questions. II; (2). Not given in 1912-13.

Assistant Professor Weston

Prerequisite: Economics 3; senior standing.]

4b. Financial History of the United States Since 1860.—The finances of the Civil War and Reconstruction period; recent development of public and private finance; II; (2).

Assistant Professor Weston

Prerequisite: Economics 3; senior standing.

5. Public Finance.—Public expenditures; financial administration; taxation; public debts. I; (3). Professor Bogart

Prerequisite: Economics 1, 3. Students who have had 6 hours in history and Political Science 1 and who present a statement from the department of political science showing that they are taking

political science as a major, may be admitted without Economics 3.

6. Business Organization.—Business enterprises and their organization: Characteristics and relative advantages of individual proprietorship, partnership, and corporation; organization for operating purposes; effect of organization on business and technical efficiency; organization and work of commercial and industrial associations. II; (2).

Professor Robinson

Prerequisite: Economics I, and 3 either preceding or concurrent. Open to students of Business Administration only.

7. ENGLISH ECONOMIC HISTORY.—The industrial development of England; the manorial system; the gilds; the commercial policy and expansion of the seventeenth and eighteenth centuries; the industrial and manufacturing growth of the nineteenth century. (Open to freshmen and sophomores only.) I_j (3).

Professor Bogart

8. The Money Market.—Dealings in money and credit; functions of money broker and banker; concentration of financial dealings at such centers as New York and London; international payments and the determination of rates of foreign exchange; seasonal demands for money; causes of fluctuation in rates of discount; monetary panics and crisis; investments; financial aspects of dealings on the stock and produce exchanges. II; (2).

Assistant Professor Weston

Prerequisite: Economics 9. Open to students of Business Administration only.

PRACTICAL BANKING.—Practical banking in the United States.
 Assistant Professor Weston

Prerequisite: Economics 3 and senior standing. Open to students of Business Administration only.

IO. CORPORATION MANAGEMENT AND FINANCE.—The growth of corporations; their causes and forms; the promotion, financiering, incorporation, and capitalization of corporate consolidations; their organization and securities; position and relations of stockholders and directors; analysis of reports; stock speculation; relations of industrial corporations to international competition; receiverships and reorganizations; social and political effects. *I*: (3).

Professor Robinson

Prerequisite: Economics 1, 3.

II. INDUSTRIAL CONSOLIDATION.—The development of industrial consolidation; growth of monopoly; monopoly prices and

methods; ability of trusts to affect prices, wages, interest, and profits; the proposed plans for controlling trusts. II; (3).

Professor Robinson

Prerequisite: Economics 10.

12. LABOR PROBLEMS.—The history of trade unions; internal organization; restrictions as to membership; collective bargaining; limitation of output; objections to piece work; strikes; boycots; injunctions. I; (3).

Assistant Professor LITMAN

Prerequisite: Economics 1, 3. Students who have had 6 hours in history and Sociology 1 and who present a statement from the department of sociology showing that they are taking sociology as a major may be admitted without Economics 3.

13. ECONOMIC DEVELOPMENT OF EUROPE SINCE THE INDUSTRIAL REVOLUTION.—The economic history of France, Germany, and England since the period of the industrial revolution. II; (3).

Professor Bogart
Prerequisite: At least sixty hours of university work, including
Economics I and 3. Students who present a statement from the
department of history, showing that they are taking history as a
major, may be admitted without Economics 3.

16. Economic Problems.—Section A: Railway problems; taxation of corporations; the labor question. Section C: Special topics relating to agriculture. (A open to students in engineering; C to students in agriculture only.) II; Sec. A (2); Sec. C (3).

Professor Robinson, Professor Bogart, Dr. Thompson, Mr. Dowrie

Prerequisite: Economics 1 or 2.

17. Economic History of Agriculture.—General characteristics of agriculture and its development as an industry in various countries at various times; land tenure and landed property; large, medium, and small farms or estates; economic conditions and results of extensive and intensive culture; agricultural credit and markets; agricultural labor; state of the agricultural class; organization in agriculture; relation of agriculture to other industries; relation of the state to agriculture; general aspects of farm organization and management. II; (2).

Dr. Thompson

Prerequisite: Economics 1, 3; senior standing. Seniors in the College of Agriculture who have had Economics 1 or 2 may be admitted to the course by special permission of the instructor.

18. Senior Seminar.—Investigation in economics, commerce,

and industry; preparation of theses. (For business students and others making economics a major.) I, II; (4-8 for the year).

Professor Robinson

21. Socialism and Social Reform.—The historically important socialistic theories; the socialism of Karl Marx and the resulting social movements. II; (3). Assistant Professor Litman

Prerequisite: Economics I and 12.

22. The Economic History of the United States.—The explorations and settlements that led to the colonization of this continent; the growth of industry, agriculture, commerce, transportation, and labor from the simple, isolated agricultural communities of the colonies to the complex industrial and commercial society of today. (Open to freshmen and sophomores only.) II; (3).

Professor Bogart

- 24. STATISTICS.—See Mathematics 23a, 31, and 129.
- 25. COMMERCIAL LAW.—Contracts; negotiable instruments; agency; partnership; business corporations; sales of personal property; bailments and carriers; guaranty and suretyship; insurance. *I, II;* (3).

 Mr. Rich

Prerequisite: At least sixty hours of university credit including Economics 1 or 2 and Accountance 1.

26. Economic Resources:—Environmental influences affecting commercial and industrial development; important products and industries of different countries; extent and distribution of the resources and the industrial and commercial activities of the United States. (Open to freshmen and sophomores only.) *I*; (3).

Assistant Professor LITMAN

27. Modern Industries.—The raw materials of commerce; their geographical distribution and economic significance; the leading industries engaged in the utilization of these materials; sources of power; investment of capital; employment of men and of machinery; progressive stages of production; distribution of finished commodities. (Open to freshmen and sophomores only.) II; (3).

Assistant Professor LITMAN

Prerequisite: Economics 26, or an approved high school course in commercial geography.

28. MECHANISM AND TECHNIQUE OF DOMESTIC COMMERCE.—The principles and methods of buying and selling in internal trade; forms of wholesale and retail trade organizations; markets, fairs, auctions, stock and produce exchanges; department, mail-order, and

coöperative stores; commercial travelers; commercial competition; theory and practice of modern advertising; mercantile credit. *I*; (3).

Assistant Professor LITMAN

Prerequisite: Economics 1, 3, 26 or 27.

[29. Foreign Commerce and Commercial Politics.—Problems arising in connection with international trade relations, and various attempts to solve them; changes in theories and in policies; economic systems (mercantile, free-trade, protective); classes of customs tariffs; commercial treaties; promotion of shipping; institutions for furthering export trade (commercial museums, consular service). I_j (3). Not given in 1912-13.

Assistant Professor LITMAN

Prerequisite: Economics 1, 3, 26 or 27.]

[30. TARIFF AND CUSTOMS REGULATIONS OF THE UNITED STATES.— Tariff legislation in the United States; the present tariff system; organization and work of the custom house; entry of goods. II; (3). Not given in 1912-13. Assistant Professor LITMAN

Prerequisite: Economics 29.]

31. Organization of Foreign Commerce.—Exporting and importing; means of communication and of transportation; the shipping business; duties of consuls. II; (3).

Assistant Professor LITMAN

Prerequisite: Economics 28.

33. Economics of Insurance.—The historical development of insurance and its economic aspects. I; (2). Professor Robinson Prerequisite: Economics 1, 3.

[34. Property Insurance.—Fire, marine, title, and credit insurance and corporate suretyship; technical characteristics and economic effects. II; (2). Not given in 1912-13.

Professor Robinson

Prerequisite: Economics 33.]

41. RAILWAY TRANSPORTATION.—General aspects in the United States; conditions abroad. Introduction; growth and present extent of the railway system; the relation of waterway and interurban competition to railway development; the railway corporation and its financial aspects; the management of a railway; railway combinations; the theory and practice of rate-making; relations with state and federal governments; the relation of European railways to the state. *I*; (3).

Professor Dewsnup

Prerequisite: Economics 1, 3; for engineers, Economics 2.

42. RAILWAY RATES; THEIR CONSTRUCTION AND REGULATION.—Rate structure in the United States; the policy of the Interstate Commerce Commission as shown by its decisions; the relation of such policy to the various theories of rate making. II; (3).

Professor Dewsnup

Prerequisite: Economics 41.

[43. THE THEORY AND PRACTICE OF RAILWAY TRAFFIC ADMINISTRATION.—The organization and methods of traffic management; problems connected therewith. (Registration in the second semester permitted only to those who obtain credit in the first semester.)

I, II; (2). Not given in 1912-13.

Professor Dewsnup

Prerequisite: Economics 1, 3. Open to students of Business

Administration only.]

45. RAILWAY OPERATION AND ITS PROBLEMS.—Organization of the operating department; economic problems of maintenance of way, and of motive power and equipment; the purchase of materials and their distribution; train movement; yard and terminal services; labor and discipline. (Registration in the second semester permitted only to those who obtain credit in the first semester.) I, II; (2).

Professor DEWSNUP

Prerequisite: Economics 1, 3. Open to students of Business Administration only.

COURSES FOR GRADUATES

Every student entering upon graduate work in economics must have had a thorough course in the principles of the science and should also have studied some special part of the field of economics, such as public finance or money and banking.

The department of economics includes general economics, eco-

nomic history, finance, commerce, and industry.

Complete sets of all the important French, German, English, and American economic and financial journals are on hand; ninety periodicals, foreign and domestic, in economics, finance, commerce, industry, statistics, etc., are currently received. The library is unusually strong in railroad literature, economic history, labor, finance, and general theory.

101. ECONOMIC THEORY.—Twice a week; I, II.

Professor KINLEY

[102. Advanced General Economics.—Twice a week; I, II. Not given in 1912-13. Professor Kinley]

103. RAILWAY ADMINISTRATION .- Topics relating to current

railway management are assigned for investigation, report, and discussion. The course is primarily intended for candidates for the degree of A.M. in Railway Administration. Once a week; I, II.

Professor Dewsnup

104. Foreign and Colonial Commerce of the United States.—
The foreign commerce of the United States as shown in government publications. Twice a week: II.

Assistant Professor LITMAN

[105. Public Finance.—The history and theory of public revenue and expenditure. Twice a week; I, II. Not given in 1912-13.

Professor Bogartl

106. RAILWAY POLICY.—A: Railway development in the United States. B: Railway development in foreign countries, particularly in western Europe. C: The state and the railway. Three years required for the completion of the course. The topic in 1912-13 is C. Once a week; I, II.

Professor Dewsnup

107. THE CORPORATION IN ECONOMIC EVOLUTION.—Once a week; I, II. Professor Robinson

[109. Theory of Industrial Consolidations.—Nature of industrial consolidations; conditions and causes responsible for their development; their effects upon the production and distribution of wealth. Once a week; I, II. Not given in 1912-13.

Professor Robinson]

118. SEMINAR.—I, II. Professor Kinley and others [120. History of Economic Thought.—Twice a week; I. Not given in 1912-13. Dr. Thompson]

122. ADVANCED ECONOMIC HISTORY OF THE UNITED STATES.—
Twice a week; I, II. Professor Bogart

ACCOUNTANCY

(See also Economics.)

Note:—The only courses in accountancy open to students not registered in Business Administration are 1, 10, and 11.

Courses 4, 5, 6, and 7 are open to graduates and advanced undergraduates.

I. PRINCIPLES OF ACCOUNTANCY.—Keeping accounts of various kinds of business, mercantile, industrial, and financial; accounting for various types of business organization; industrial and commercial statistics of a plant, and proper deductions as to efficiency of departments and soundness of business policy; designing of ac-

counting systems for different kinds of businesses. (If elected this course must be taken throughout the year in order to secure credit.) I, II; (3). Assistant Professor Duncan, Mr. Martin

Prerequisite: Thirty hours of university credit; registration in

Economics 1.

3. Industrial Accounting.—Types of industries; methods of installing accounting systems to suit their technical peculiarities, for the purpose of revealing costs and efficiency in management both for the plant as a whole and by departments. I; (2).

Assistant Professor Duncan

Prerequisite: Accountancy 1.

4. Advanced Accounting.—The handling of capital, revenue, dissolution of partnership, realization, liquidation, insolvency, goodwill, treatment of bad debts, suspense, maintenance, depreciation, reserve, and sinking funds, contingent funds, secret reserves, and the like. II; (3).

Assistant Professor Duncan

Prerequisite: Accountancy 1.

5. Auditing.—The duties and responsibilities of an auditor; kinds of audits; value of each; the auditor's report, what it should contain; his certificate, its value; the preparation of audit reports. (For students of accountancy only.) II; (2).

Assistant Professor Duncan

Prerequisite: Accountancy 4, 7.

[6. RAILROAD ACCOUNTING.—The handling of railroad revenue accounts, including freight, passenger, express, and other earnings from the road and allied companies; the treatment of operating expenses, fixed charges, the work of the Interstate Commerce Commission in standardizing railway accounting methods. II; (2). Not given in 1912-13.

Assistant Professor Duncan

Prerequisite: Accountancy 4, 7. For students of accountancy

and railway traffic and accounting only.]

7. Advanced Accounting Problems.—Continuation of Accountancy 4. Practical problems. Special topics: executor accounts, insurance accounts, and accounting for municipalities and other public bodies. *I*; (3).

Assistant Professor Duncan

Prerequisite: Accountancy 4.

IO. SHOP MANAGEMENT AND COST KEEPING.—Types of industries, how they influence plant layouts, the laborers needed, and the materials used; types of records suitable for each kind of industry in order to approximate costs of manufacture and to deter-

mine and compare the efficiencies of departments, of individual workers, of methods of production, and the like. The work is presented from the standpoint of the engineer and shop manager. II;

(2). Assistant Professor Duncan

Prerequisite: Open only to engineering students who have

had Economics 1 or 2.

11. FARM Accounting.—Single and double entry; designing of accounting systems for different kinds of farm operations and for different kinds of farming. I; (2).

Mr. Martin

Prerequisite: Open to junior and senior students of agriculture only.

EDUCATION

WILLIAM CHANDLER BAGLEY, Ph.D., Professor LOTUS DELTA COFFMAN, Ph.D., Professor LEWIS FLINT ANDERSON, Ph.D., Assistant Professor WILFORD STANTON MILLER, A.M., Assistant and Secretary

The courses of the department fall into two general divisions: courses primarily for professional training and courses more specifically designed for general culture. The first division includes courses 1, 3, 4, 6, 9, 10, 11, 19, and 20; the second division, courses 2, 12, 13, 17, and 18. Students majoring in education will be required to take at least three hours in psychology in addition to the requirements in education. Courses 1 and 5 in psychology are especially recommended.

Honors

Candidates for honors in education must offer:

- 1. A minimum of 18 hours in education and 6 hours in psychology. Teachers' courses, not to exceed 3 hours in all, offered by other departments of the University, may, with the approval of the department of education, be counted as part of this requirement.
- 2. Minors in either (1) psychology (at least 9 hours exclusive of the 6 hours counted toward the major) and one subject selected from those that are usually taught in secondary schools, or (2) any two related subjects commonly taught in secondary schools. No course may be counted toward the minimum requirement for minors which may not be counted toward the major requirement in such subjects.

INTRODUCTORY COURSES

I. Principles of Education.—The processes of education traced back to the basic principles of biology, psychology, and sociology which explain and justify them. (Preceded by a brief sketch of the public school system.) I; (3). Professor Bagley

Prerequisite: Two years of university work.

2. HISTORY OF EDUCATION.—The development of educational theory and practice in their relation to the history of civilization. II; (5).

Assistant Professor Anderson

Prerequisite: Two years of university work.

INTERMEDIATE COURSES

[3. GENERAL METHOD.—II; (3). Not given in 1912-13.]

IO. OBSERVATION AND THE TECHNIQUE OF TEACHING.—Systematic observation of classroom work in neighboring high schools; weekly conferences for the discussion of observations; two lectures each week upon the technique of teaching; preparation by students of plans illustrating types of school exercises. *I*, *II*; (3).

Professor Bagley

Prerequisite: Education 1.

[11. Practice Teaching.—I or II; (5). Not given in 1912-13.]

15. School Hygiene.—The hygienic aspects of school architecture and equipment; the hygiene of posture, exercise, and fatigue, and of reading and writing; the bearing of hygienic principles upon the course of study, the daily program, and other details of administration and teaching. II; (3).

Professor Bagley

Prerequisite: Education I.

16. Social Education.—The school as a social factor in its relation to the home, the church, and the state; relation of education to child labor, vocation, and crime; educational extension. II; (3).

Professor Coffman

Prerequisite: Two years of university work.

23. AGRICULTURAL EDUCATION.—II; (3).

Assistant Professor Nolan

ADVANCED COURSES FOR UNDERGRADUATES AND GRADUATES

4. PROBLEMS OF EDUCATIONAL ADMINISTRATION.—The interpretation of present tendencies as exemplified in the school systems of typical cities and states, and in recent educational experiments in administration, discipline, methods, and subject-matter. I; (3).

Professor Coffman

Prerequisite: Education 1, 2.

5. Comparative Education.—Elementary and secondary education in the United States, England, Germany, and France. 1; (3)

Assistant Professor Anderson

Prerequisite: Education 1, 2.

6. Principles of Secondary Education.—High School organization and management; educational value of subjects represented in the secondary curriculum; the structure of the course of study; the technique of secondary teaching and management. *II*; (3).

Professor Coffman, Assistant Professor Hollister

Prerequisite: Education 1.

12. History of American Education.—(Subject to the approval of the Graduate School faculty.) I; (2).

Assistant Professor Anderson

Prerequisite: Education 2.

13a. Educational Classics.—The sources of the history of education; the educational writings of Plato, Aristotle, Quintilian, Montaigne, Milton, Locke, Rousseau. *I*; (3).

Assistant Professor Anderson

Prerequisite: Education 2.

13b. Educational Classics.—(Continuation of 13a.) The educational theories of Pestalozzi, Herbart, Froebel, Herbert Spencer, and others. II; (3). Assistant Professor Anderson

Prerequisite: Education 2.

[18. Principles of Esthetic, Moral, and Religious Education—1; (3). Not given in 1912-13.]

20a. Theory of Supervision.—The problems of supervision; the supervisor's functions in training and improving teachers. (Open only to graduate students and to seniors who are either graduates of normal schools or experienced teachers, or who are preparing for the work of supervision in special subjects, such as household science, manual training, and physical training.) II; (3).

Professor Coffman

Prerequisite: Education 1.

[20b. Theory and Practice of School Supervision.—II; (5). Not given in 1912-13.]

25. EDUCATIONAL PSYCHOLOGY.—(See Psychology II.) II; (3).
Professor Bagley

COURSES FOR GRADUATES

Graduate students who are taking their major work in education must have had as a prerequisite for such study Education 1, 2, and

Io and at least one elementary course in psychology. Work in the biological sciences, in philosophy, and in psychology is also recommended.

101. SEMINAR.-I, II.

Professor Bagley, Professor Coffman, Assistant Professor Anderson

108. HISTORY OF INDUSTRIAL AND VOCATIONAL EDUCATION.—Industry and industrial training in Egypt, Greece, Rome; industry and industrial training in the Middle Ages; the industrial revolution and its effect upon education; recent tendencies in the development of agricultural and industrial high schools, agricultural colleges, monotechnic schools, continuation schools. Twice a week; II.

Assistant Professor Anderson

[III. PRACTICE TEACHING.—I, II. Not given in 1912-13.]

112. PRINCIPLES OF EDUCATION.—The organization of public education in the United States and other countries, the aims of education; a brief resumé of the principles of teaching. (Designed for the general student and not open for credit to students who have elected education as a major subject.) Twice a week; I.

Professor Bagley

THE ELEMENTARY CURRICULUM.—The functions and values of elementary school subjects; practical exercises in the construction of school curricula. (Designed especially for superintendents and principals.) Three times a week; I. Professor Coffman

ELECTRICAL ENGINEERING

Ernst Julius Berg, M.E., D.Sc., Professor

Morgan Brooks, Ph.B., M. E., Professor

Ellery Burton Paine, M.S., E.E., Assistant Professor

Edward Hardenbergh Waldo, A.B., M.E., Assistant Professor

John Myron Bryant, M.S., E.E., Assistant Professor

Frank Gardner Willson, B.S., Instructor

Leonard Vaughan James, M.S., Instructor

Harry Gray Hake, M.S., Instructor

Ira William Fisk, B.S., Instructor

Frank Carlton Loring, A.M., Instructor

1. ELECTRICAL ENGINEERING.—Principles of electrical machinery;

selection, installation, and operation; distribution of power; motor applications. (For municipal and sanitary engineers.) II; (2).

Professor Brooks

Prerequisite: Physics 1, 3; junior standing.

3. DYNAMO ELECTRICAL MACHINERY.—Laws of electric and magnetic circuits; principles of construction and operation of direct current generators and motors. *I*; (3).

Assistant Professor Paine, Assistant Professor Bryant, Mr. James, Mr. Hake

Prerequisite: Physics 1, 3; Mathematics 9.

5. ALTERNATING CURRENTS.—A mathematical and graphical treatment of the principles of periodic currents; theory of the simple phenomena in transmission lines and transformers. II; (4).

Assistant Professor Paine, Assistant Professor Bryant, Mr. James, Mr. Hake

Prerequisites Electrical Engineering 3.

6. Alternating Currents.—(For mechanical engineers.) *I*; (2). Professor Brooks

Prerequisite: Electrical Engineering 3 or 16.

9. LIGHTING.—Electric lamps and other illuminants, and their effective use; interior wiring; methods of electrical distribution. (For architects.) II; (1). Professor Brooks

Prerequisite: Junior standing.

13. Seminar.—Electrical railroading; illumination; telegraphy; telephony; storage batteries; electric metallurgy. *I, II;* (1).

Professor Berg, Assistant Professor Paine

Prerequisite: Junior standing.

14. ALTERNATING CURRENTS.—Alternating-current transformers and generators. *I*; (4).

Assistant Professor Paine, Assistant Professor Bryant, Mr. James, Mr. Hake

Prerequisite: Electrical Engineering 5.

16. DYNAMO-ELECTRIC MACHINERY.—Direct-current generators; motors; distribution circuits; storage batteries. Laboratory practice. (For mechanical engineers.) II; (4).

Professor Brooks, Assistant Professor Waldo, Mr. James, Mr. Hake, Mr. Loring

Prerequisite: Physics 1, 3; Mathematics 9.

17. ADVANCED ALTERNATING CURRENTS.—Synchronous, induction, and commutator alternating current motors; rotary converters; distributed inductance and capacity; transient phenomena. II: (4).

Professor Berg, Assistant Professor Paine, Assistant Professor Bryant, Mr. James, Mr. Hake

Prerequisite: Electrical Engineering 14, 24.

20. ELECTRICAL ENGINEERING LABORATORY.—The construction of special apparatus or other work approved by the department. (Elective for juniors and seniors.) *I, II;* (1 to 3.)

Assistant Professor BRYANT, Mr. WILLSON

22. ELECTRICAL ENGINEERING LABORATORY.—Direct current laboratory accompanying Electrical Engineering 3. I; (2).

Mr. Willson, Mr. Hake, Mr. James, Mr. Loring

Prerequisite: Registration in Electrical Engineering 3.

23. ELECTRICAL ENGINEERING LABORATORY.—Determination of the flux and E. M. F. waves of alternators. Alternating current circuits, instruments, II; (2).

Mr. James, Mr. Fisk, Mr. Hake, Mr. Loring

Prerequisite: Electrical Engineering 3, 22; registration in Electrical Engineering 5.

24. Electrical Engineering Laboratory.—Advanced direct and alternating current testing. I; (2).

Assistant Professor Waldo, Mr. Willson, Mr. Fisk

Prerequisite: Electrical Engineering 23; registration in Electrical Engineering 14.

27. Electrical Engineering Laboratory.—Advanced alternating current testing. II; (2).

Assistant Professor BRYANT, Mr. WILLSON, Mr. FISK

Prerequisite: Electrical Engineering 24; registration in Electrical Engineering 17.

28. Electrical Engineering Laboratory.—Testing of dynamos and motors. *I*; (1). Mr. Loring

Prerequisite: Electrical Engineering 1.

29. ELECTRICAL ENGINEERING LABORATORY.—Alternating current operation and testing. (For students in mechanical engineering.) II; (2). Mr. Willson

Prerequisite: Electrical Engineering 6.

32. ELECTRICAL DESIGN.—Calculation and design of electromagnets and of dynamos, direct and alternating, and of transformers. 1: (2).

Assistant Professor Waldo, Mr. Fisk

Prerequisite: Electrical Engineering 5; registration in Electrical Engineering 14.

34. Electrical Design.—Calculation of induction motors and converters. Problems in power plant design. II; (3).

Assistant Professor Waldo, Mr. Fisk

Prerequisite: Electrical Engineering 14.

35. Thesis.—First semester, preliminary reading and investigation; second semester, completion. Subjects must be chosen and approved before the first Monday in November. II; (3).

COURSES FOR GRADUATES

Entrance upon graduate work in electrical engineering presupposes the full undergraduate course in that subject.

IOI. ADVANCED COURSE IN ALTERNATING CURRENTS.—The theory of Transient Phenomena; polyphase circuits; alternating current measuring apparatus. Twice a week; I, II.

Professors Berg and Brooks 102. The Generation, Transmission, and Utilization of Electrical Energy.—Dynamo-electric machinery; light and power plants; switchboards and transmission lines. Twice a week; I, II.

Professor Berg, Assistant Professor Paine

103. ELECTRICAL DESIGN.—The development of plans for an electrical machine or apparatus of specified character; or for the arrangement of an electrical plant; or for the installation of such machinery or apparatus. Twice a week; II.

Professor BERG, Assistant Professor WALDO

104. Telegraphy and Telephony.—Professor Brooks, Assistant Professor Paine

105. ELECTRICAL ENGINEERING RESEARCH.—An experimental investigation of some electrical phenomena, or tests of some electrical machine, or of a plant of such machines. Twice a week; I, II.

Professor Berg, Assistant Professor BRYANT

106. ILLUMINATION.—

Professor Brooks, Assistant Professor Bryant 107. High Tension Investigations Covering Work on Dielectrics, Corona, etc.—

Professor Berg, Assistant Professor Bryant

108. Central Station Economics.— Professor Berg

ENGINEERING

(See Architecture, Civil Engineering, Drawing, Electrical Engineering, Mechanical Engineering, Mechanics, Mining Engineering, Municipal and Sanitary Engineering, Physics, Railway Civil Engineering, Railway Electrical Engineering, and Railway Mechanical Engineering.)

THE ENGLISH LANGUAGE AND LITERATURE (Including RHETORIC)

RAYMOND MACDONALD ALDEN, Ph.D., Professor and Chairman DANIEL KILHAM DODGE, Ph.D., Professor THOMAS ARKLE CLARK, B.L., Professor STUART PRATT SHERMAN, Ph.D., Professor EDWARD FULTON, Ph.D., Associate Professor EDWARD CHAUNCEY BALDWIN, Ph.D., Assistant Professor HARRY GILBERT PAUL, Ph.D., Assistant Professor Franklin William Scott, A.M., Assistant Professor, Secretary HARRIE STUART VEDDER JONES, Ph.D., Assistant Professor THACHER HOWLAND GUILD, A.M., Associate JACOB ZEITLIN, Ph.D., Associate MARTHA JACKSON KYLE, A.M., Instructor HERBERT LE SOURD CREEK, Ph.D., Instructor CLARENCE VALENTINE BOYER, Ph.D., Instructor ARTHUR JERROLD TIEJE, Ph.D., Instructor JOHN CLARK JORDAN, A.M., Instructor VICTOR ALVIN KETCHAM, A.B., LL.B., Instructor LAWRENCE GILPIN PAINTER, Ph.B., LL.B., Instructor SADA ANNIS HARBARGER. A.M., Assistant VIDA LUCILE COLLINS, A.M., Assistant MARION CHARLOTTE LANDEE, Assistant RUTH KELSO, A.M., Assistant ALTA GWINN, A.M., Assistant WALTER A. BUCHEN, A.B., Assistant FRANK ERNEST HILL, A.B., Assistant MELVIN ARTHUR HOLLINSHEAD, A.B., Assistant JOSEPH ALLAN NEVINS, A.B., Assistant LEW R SARETT, A.B., Assistant EMERSON GRANT SUTCLIFFE, A.B., Assistant PAUL JAY BATKIN, A.B., Assistant THOMAS GREGORY GOODWIN, A.B., Assistant

Major

A student making English a major must take 24 hours in English in addition to Rhetoric 1 and the first semester of English 1 or 10. Of these 24 hours, at least 12 must be in English literature, and at least 3 in composition. Of the total 24 hours, at least 6 must be taken in advanced courses.

Honors

Candidates for honors in English must offer:

- I. Work in English amounting to 24 hours in addition to Rhetoric I and the first semester of English I or IO.
- 2. At least 6 hours in advanced courses, which may be in either English literature or English composition.
- 3. A minimum of 15 hours in English literature in addition to the first semester of English 10, and a minimum of 6 hours in English composition in addition to Rhetoric 1.
- 4. Work aggregating 24 hours in two minor subjects, which must be in two foreign languages or in one foreign language and either history or philosophy. French 1 and German 1 and 3 may not be counted toward the fulfillment of the minor requirements.

A. LITERATURE AND LANGUAGE

ELEMENTARY COURSES

I. Survey of English Literature.—(Credit is not given for either semester separately, nor for the course in addition to course 10 or course 20. Only one semesters' work is credited toward a major in English. Seniors in the College of Literature and Arts may receive but half credit.) I, II; (4).

Professor Sherman, Assistant Professor Baldwin, Dr. Boyer, Dr. Creek, Miss Kyle, Mr. Jordan, Mr. Painter, Dr. Tieje Prerequisite: A year's college work.

2. Introductory Course in Literature of the Nineteenth Century.—(This course is offered only for those who have received credit for English I as a one-semester course.) I; (4).

Dr. Tieje

10. Introduction to Literature.—A (First semester), The Forms of Prose Literature; B (Second Semester), The Forms of Poetry. (This course is intended only for those who expect to include a considerable amount of literature, in English or some other

language, in their curriculum. Credit is not given for the course in addition to course I or course 20. Only one semester's work is credited toward a major in English. Seniors in the College of Literature and Arts may receive but half credit. Credit is not given for the first semester separately.) I, II; (3).

Professor Alden, Assistant Professor Paul, Miss Kyle

Prerequisite: The minimum entrance requirements in English.

16. AMERICAN LITERATURE—(Credit is not given for either semester separately.) I, II; (2). Assistant Professor Paul Prerequisite: English I or Io.

17. The English Language.—Some account of its history, with special reference to the characteristics and usage of modern English. I; (3). Associate Professor Fulton

Prerequisite: Rhetoric 1.

20. The Chief English Writers.—(This course is offered only for those whose program admits of but one semester's work in English, and who therefore may not register for course I. It is not accepted, like course I, as a prerequisite for more advanced courses. Credit is not given for the course in addition to course I or course IO. Seniors in the College of Literature and Arts may receive but half credit.) I or II; (4).

Professor Alden, Professor Dodge, Dr. Boyer, Dr. Tieje, Mr. Buchen

Prerequisite: A year's college work.

23. Introduction to Shakespeare.—I or II; (3).

Professor Sherman, Mr. Guild

Prerequisite: English 1 or 10.

INTERMEDIATE COURSES

Prerequisite: Eleven hours of English literature, or eight hours of English literature and eight hours of a foreign language.

7. CHAUCER.—I; (3). Assistant Professor Jones

19. LITERARY STUDY OF THE BIBLE.—Hebrew literature as an expression of the life of the race that produced it; the debt, both ethical and artistic, of modern life to ancient Hebrew thought. (Either semester may be taken separately.) I, II; (3).

Assistant Professor Baldwin

24. English Literature of the Victorian Period-II; (4).

Miss Kyle

- 29. ENGLISH LITERATURE FROM 1557 TO 1688, EXCLUSIVE OF THE DRAMA.—I; (3). Assistant Professor Baldwin
 - 31. English Literature from 1688 to 1789.—II; (3).

Assistant Professor Paul

- 32. THE GREATER ENGLISH CRITICS OF THE 19TH CENTURY.—II;
 (3). Associate Professor Fulton
 - 33. English Literature from 1789 to 1837.—I; (4).

Dr. ZEITLIN

ADVANCED COURSES FOR UNDERGRADUATES AND GRADUATES

Prerequisite: Sixteen hours of English literature. Juniors and seniors, however, who have had at least eleven hours of English literature, and have taken advanced work in either a foreign language or in history or have had a year's work in philosophy, may elect any of these courses.

3. The Poetry of Milton.—Origins, forms, artistic and ethical values; Milton's place in English literary history. II; (3).

Assistant Professor BALDWIN

- 4. English Versification.—Theory of English rhythm and metre; history of the development of the forms of English verse. I; (3). Professor Alden
- 5. Shakespeare and His Predecessors.—(The second semester, devoted to Shakespeare, may be taken without the first.) I, II; (3).
 - Professor Dobge mar; prose; short
- 8. OLD ENGLISH (ANGLO-SAXON).—Grammar; prose; short poems; Beowulf. I, II; (3).

 Professor Dodge
- [14. STUDIES IN THE HISTORY OF JOURNALISM.—Not given in 1912-13.

 Assistant Professor Scott]
- 15. Teachers' Course.—Methods of teaching English literature and composition in the high school. (This course, while open to graduate students, is not credited toward advanced degrees. Either semester may be taken separately.) I, II; (2).

Assistant Professor Paul

18. Modern English Grammar.—The structure of the sentence and its analysis into the parts of speech; the common grammatical categories; the peculiarities of English syntax. II; (3).

Dr. ZEITLIN

27. LITERATURE OF THE FOURTEENTH CENTURY.—That literature of the period which best reflects the political and religious life of the time; Chaucer; the so-called revival of alliterative poetry. II; (3).

Assistant Professor Jones

35a. English Drama from 1600 to 1700.—Chapman, Jonson, Dekker, Marston, Heywood, Middleton, Beaumont and Fletcher, Webster, Ford, Massinger, Shirley, Dryden, Wycherly. Otway, Lee, Congreve, Vanbrugh. *I*; (3). Professor Sherman

[35b. English Drama from 1700 to 1900.—Omitted in 1912-13.]

39. Introduction to the Literature of the Middle Ages.— European culture from the fourth century; the relation of English and continental literature to the fourteenth century. I; (3).

Dr. Creek

COURSES FOR GRADUATES

Students who enter upon graduate work with English as their major subject are expected to give evidence of ability to write well, and of a considerable acquaintance with English literature. Their progress in the field of English will depend, however, in great measure upon the breadth and thoroughness of their training as undergraduates in the following closely allied subjects: the Classics, the modern languages, history, and philosophy.

A reading knowledge of French and German is from the beginning highly desirable; after the first year it is indispensable.

The Degree of Master of Arts in English. In addition to complying with the general rules of the Graduate School, candidates for the degree of Master of Arts in English must comply with the following rules of the Department of English: (1) they must choose a portion of their work from the group of courses described as "for graduates"; (2) must offer an elementary course in Anglo-Saxon; and (3) must take, besides the regular semester examinations in all their courses, a general examination, oral or written as the department may prescribe, which shall be a final test of the candidate's fitness and ability.

The Degree of Doctor of Philosophy in English. Candidates for the degree of Doctor of Philosophy in English may expect to be examined on the entire field of the English language and literature. They are urged, furthermore, to acquaint themselves as fully as possible with the history of the philosophy of the period in which their main interest lies, and with the foreign language and literature most closely related to English in that period.

IOI. RESEARCH IN SPECIAL PERIODS.—Competent graduate students are encouraged to seek the advice and assistance of the department of English and to submit to the department plans for

Professor Dodge, Dr. Zeitlin

Professor Alden, Professor Dodge

Professor Alden, Assistant Professor Baldwin

Assistant Professor Iones

Assistant Professor Jones]

Assistant Professor PAUL

Professor SHERMAN

Professor SHERMAN]

SEVENTEENTH TO

A. Anglo-Saxon language and literature.

C. Sixteenth Century.

D. Seventeenth Century.

Eighteenth Century.

Thirteenth and Fourteenth Centuries.

E.

I, II.

I. II.

Professor SHERMAN, Assistant Professor Paul F. Nineteenth Century. Professor SHERMAN, Associate Professor Fulton 102. SEMINAR IN COMPARATIVE LITERATURE.—Subject: Tragedy in the Nineteenth Century. Twice a week: I. Professor ALDEN 105. SHAKESPEARE'S SONNETS.—The text and the problems involved in its interpretation. Twice a week: II. Professor Alden 106. ENGLISH LITERARY CRITICISM FROM THE AGE OF SIDNEY TO THE AGE OF COLERIDGE.—Twice a week: I. II. Associate Professor Fulton 100. GERMAN AND SCANDINAVIAN INFLUENCES ON ENGLISH LITERATURE OF THE EIGHTEENTH AND NINETEENTH CENTURIES .-Twice a week: I. Professor Dodge 110. OLD ENGLISH (ANGLO-SAXON) POETRY.—Twice a week; I. II. Professor Dodge 113. HISTORICAL PROSE SYNTAX.—The forces, native and foreign, at work in the development of English prose style as far as it relates to sentence structure. During 1012-13 the emphasis is placed on Tudor prose. Twice a week: I. II. Dr. Zeitlin 126. English Ballads and Metrical Romances.—Twice a Assistant Professor Iones week; I, II. [127. MIDDLE ENGLISH.—Critical reading of Middle English

EIGHTEENTH CENTURY; THE RISE OF CLASSICISM .- Twice a week:

137. NINETEENTH CENTURY PROSE WRITERS.—Twice a week;

[138. THE ROMANTIC MOVEMENT IN ENGLAND .- Twice a week;

texts. Twice a week; I, II. Not given in 1912-13.

136. THE TRANSITION FROM THE

I. II. Not given in 1912-13.

B. RHETORIC

I. COMPOSITION

ELEMENTARY COURSES

I. *RHETORIC AND THEMES.—Required for students in the Colleges of Literature and Arts, Science, Engineering, and Agriculture. I, II; (3).

Assistant Professor Scott (in charge), Associate Professor Fulton, Assistant Professor Jones, Mr. Guild, Dr. Zeitlin, Dr. Boyer, Dr. Creek, Mr. Jordan, Mr. Painter, Dr. Tieje, Mr. Warnock, Mr. Buchen, Miss Harbarger, Miss Kelso, Miss Collins, Miss Gwinn, Mr. Nevins, Mr. Sutcliffe, Mr. Goodwin, Mr. Hill, Mr. Sarett, Mr. Batkin, Mr. Hollinshead

Prerequisite: The minimum entrance requirements in English. For the benefit of those whose course is irregular, a limited number of sections in each semester take up the work of the other semester. The course is not counted toward a major in English.

INTERMEDIATE COURSES

- 2. Argumentation.—General argumentative writing; the purpose of argument; the tests of evidence and reasoning. Textbook; class discussions; assigned work. I; (3). Mr. Ketcham Prerequisite: Rhetoric 1.
- 3. English Composition.—Short themes, with an occasional long theme. I or II; (3). Professor Clark, Mr. Guild, Miss Kyle Prerequisite: Rhetoric 1.
- 6. Advanced Composition: Narration.—Practice in short story writing. (Intended for those who have some aptitude for literary work.) I; (3). Mr. Guild

Prerequisite: Two years of college work and the consent of the instructor.

10. Business Writing.—Business correspondence, with practice in incidental writing, summaries, etc. (Open only to those taking a business course, except by special permission. Not counted toward a major in English.) *I or II;* (2). Professor Clark

Prerequisite: Rhetoric 1.

^{*}Those students who show by examination a proficiency in composition sufficient to qualify them for the second semester's work in Rhetoric 1 may be excused from the first semester's work. See page 81.

12. Newspaper Writing.—News writing; interviewing and reporting; news correspondence; news form; news value; typography; proof reading. I, II; (2). Assistant Professor Scott

Prerequisite: Rhetoric I.

19. AGRICULTURAL NEWS WRITING.—Class exercises; lectures; assignments in gathering and preparing material for agricultural papers. II; (3).

Assistant Professor Scott

Prerequisite: Junior or senior standing in the College of Agri-

culture. Rhetoric 1.

ADVANCED COURSES FOR UNDERGRADUATES AND GRADUATES

15. Advanced Newspaper Writing.—The larger problems in reporting; application of principles of history, economics, and political science to current public events; editing; editorial writing. *I, II;* (3).

Assistant Professor Scott

Prerequisite: Rhetoric 12 or the consent of the instructor.

17. Advanced Composition.—Practice writing, with special emphasis on the study of structure; criticism of current periodical literature; the developing of material for reports, magazine articles, etc. II; (3).

Mr. Guild

Prerequisite: Two years of college work and the consent of

the instructor.

II. PUBLIC SPEAKING

ELEMENTARY COURSE

7. Public Speaking.—Reading aloud, with occasional memory work. Lectures; class exercises; individual instruction. *I, II;* (2). Mr. Ketcham, Mr. Sarett, Miss Landee

Prerequisité: Rhetoric I.

INTERMEDIATE COURSES

4. The Art of Debate.—Brief writing and the extemporaneous presentation of argument in formal debate. (Contestants in the intercollegiate debates, when registered for this course, are excused from the class work during their period of practice.) II; (3).

Mr. KETCHAM

Prerequisite: Rhetoric 2, 7.

5. The Forms of Public Address.—Extempore speaking; formal public speaking; discussions of current events; parliamentary procedure. *I, II;* (2).

Mr. Ketcham

8. Interpretative Reading.—11; (3).

Mr. Guild

Prerequisite: Rhetoric 1, 7.

[9. Dramatic Reading.—Not given in 1912-13.

Mr. Guild]

ENTOMOLOGY

(See also Botany, Physiology, and Zoology.)

Stephen Alfred Forbes, Ph.D., LL.D., Professor
Justus Watson Folsom, D.Sc., Assistant Professor
Alexander Dyer MacGillivray, Ph.D., Assistant Professor
Hugh Glasgow, A.B., Assistant
Alvah Peterson, B.S., Assistant

Entomology as taught at the University is distinctly differentiated from the work in zoology. Students preparing for service as economic entomologists should take as many of the courses offered as possible, including especially 2, 3, 4, 7, 8, 14, and 108. Those preparing for the teaching of zoology should take either 2 and 4, or 3 and 4, or all three of these courses.

I. ELEMENTARY ENTOMOLOGY.—Lectures; laboratory; field work. (Open to all students.) I, II; (2). Assistant Professor Folsom

2. General Entomology,—Field entomology; morphological and physiological entomology; the collection and preservation of specimens; laboratory studies of typical insects; the recognition of adaptive structures and their utilities. (This course and course 3 form a year's work, covering the whole field. Either may be taken independently of the other.) I; (5).

Assistant Professors Folsom and MacGillivray

Prerequisite: Entomology 1, or 4, or equivalent.

3. General Entomology.—The classification and determination of insects; the study of life histories in the insectary and by field observation; the collection of information with respect to the ecological relations of insects. II; (5). Assistant Professor Folsom

Prerequisite: Entomology I or 4, or equivalent.

4. Introduction to Economic Entomology.—Lectures; field work; laboratory. Section A for students of agriculture. I; first half; (2½). Section B, for students of horticulture. II; second half; (2½).

Assistant Professor Folsom

5. Introduction to Research.—Preparation for thesis work. Library, language, manuscript, and advanced laboratory work on

assigned topics. (A three-hour course for one semester is required as a preparation for entomological thesis work.) *I or II*; (3 to 5). Professor Forbes, Assistant Professors Folsom and MacGillivray

Prerequisite: Entomology 2, 3.

6. Thesis Investigation.—Subjects selected during the junior year. Three hours a day given to investigation, under the supervision of an instructor, during the senior year. I, II; (5).

Professor Forbes, Assistant Professors Folsom and MacGillivray

7. ELEMENTARY SYSTEMATIC ENTOMOLOGY.—The external anatomy of insects; the terminology of the parts; identification of specimens representing as many as possible of the major groups. *I or II*; (5).

Assistant Professor MacGillivray

Prerequisite: Entomology 2.

8. Advanced Economic Entomology.—Assigned problems. Field laboratory, insectary, library, and manuscript work, with practice in the special operations of economic entomology. (Intended primarily to prepare students for service as entomologists in experiment stations and other state and government positions. Agronomy 7 and Horticulture 1, 2, and 3 should also be taken as a part of this preparation.) I, II; (3).

Professor Forbes, Assistant Professor Folsom

Prerequisite: Entomology 4, 2, 3.

9. ADVANCED SYSTEMATIC ENTOMOLOGY.—The identification of the characters upon which genera and species are based. *I or II;* (5).

Assistant Professor MacGULIVRAY

Prerequisite: Entomology 2, 7.

10. Taxonomy of Immature Insects.—I; (5).

Assistant Professor MacGillivray

Prerequisite: Entomology 1 or 4, 2, 7.

II. CLASSIFICATION OF THE COCCIDAE.—Methods of preparing scale insects for study, the identification of genera and species, and discussion of their morphology, metamorphosis, and phylogeny. II; (5).

Assistant Professor MacGillivray

Prerequisite: Entomology I or 4, 2, 7.

12. Seminar.—Reports and discussion upon assigned topics; presentation and discussion of contents of recent entomological publications, and of results of personal research. *I*, *II*; (1).

Prerequisite: One year of entomological work.

13. MEDICAL ENTOMOLOGY.-Insects and the transmission of dis-

ease; methods of controlling such insects and preventing the disease due to them. (Primarily for advanced students preparing for medicine.) I or II; (3).

Prerequisite: Zoology 3, or its equivalent in microscopical technique.

14. Advanced Economic Entomology.—Personal work under direction on assigned problems in economic entomology, intended to prepare advanced students for immediate service as state and government entomologists. Advantage will be taken of the operations and practical problems of the State Entomologist's office so far as available. I or II, and six weeks of summer vacation.

Prerequisite: Courses in elementary and advanced economic entomology, and in systematic entomology.

COURSES FOR GRADUATES

The prerequisite for graduate work in entomology is one year's work in biological courses, including an equivalent of either Zoology I or Entomology I or 4. Entrance upon major work in entomology requires the equivalent of Entomology 2 and 3.

Graduate students who have had at least one year of college work in biological courses may take for graduate credit any of the preceding courses except 1, 4, and 6. The following courses are open to graduate students only:

102. RESEARCH IN THE MORPHOLOGY AND EMBRYOLOGY OF INSECTS.

Assistant Professor Folsom

103. RESEARCH IN FAUNISTIC AND ECOLOGICAL ENTOMOLOGY.

Professor Forbes

RESEARCH IN ECONOMIC ENTOMOLOGY. Professor FORBES
 RESEARCH IN SYSTEMATIC ENTOMOLOGY.

Assistant Professor MacGillivray

THE FINE ARTS

(See ART AND DESIGN and MUSIC. Attention is called also to the courses in esthetics offered by the departments of philosophy, education, architecture, and household science.)

FLORICULTURE

(See Horticulture.)

FRENCH

(See ROMANCE LANGUAGES AND LITERATURE.)

GEOLOGY

(Including Mineralogy, Paleontology, and Physical Geography.)

CHARLES WESLEY ROLFE, M.S., Professor
WILLIAM SHIRLEY BAYLEY, Ph.D., Associate Professor
THOMAS EDMUND SAVAGE, Ph.D., Assistant Professor
JOHN LYON RICH, Ph.D., Instructor
WALTER ELMER EKBLAW, A.B., Assistant
DAVID GROSH THOMPSON, A.B., Assistant
FRANK LESLIE FLEENER, A.B., Assistant
GEORGE WILLIAM HEITKAMP, A.B., Assistant

This department occupies a suite of twenty-seven rooms on the first and second floors of the Natural History building. Its laboratories and lecture rooms are equipped with the apparatus and illustrative material necessary to carry on the work scheduled below. The equipment for the study of crystallography, mineralogy, economic geology, paleontology, and stratigraphy is especially good. The department is also supplied with maps, charts, projection apparatus, and field and laboratory instruments for surveying and mapping.

The collections in mineralogy, petrography, and paleontology are large and well selected. The last is rich in the fossil forms which occur in the Mississippi Valley and the library is well supplied with the literature essential to their study.

The offices and laboratories of the State Geological Survey adjoin those of the department and a portion of the instructors are also engaged in work for the Survey, while others are coöperating with the United States Geological Survey, thus giving advanced students the advantages which are to be gained from close contact with practical work.

To students who are especially interested in geology the department offers three lines of work, and recommends that the courses be taken in the order indicated below.

MINERALOGY, PETROGRAPHY, ECONOMIC GEOLOGY.—For those who care particularly for minerals and rocks, their identification, origin, and transformation; the origin, characteristics, and classification of ores and the economic qualities of non-metallic minerals, it is recommended that the following courses be taken in the order given: Geology 19, 1, 1a, 5, 5a, 6, 7, 16, 15, 2.

Stratigraphy, Paleontology.—If the student cares more for the history of rocks, the order in which they were laid down, the conditions which gave them their peculiarities, and the evolution of living forms as shown by the succession of fossils, the following order of courses is suggested: 19, 1, 1a, 9, 16, 5, 18, 20, 22, 15, 4.

Physiographic Geology, Physical Geography.—If his interest lies more in the earth's surface, the origin of its topographic forms, the agencies which are transforming them, and the influence of these upon the welfare of plants, animals, and man, the following courses are advised, in order: 19, 23, 14, 10, 5, 1a, 11, 8, 20, 17, 24, 4. These courses will be of special interest to prospective teachers of physiography.

The attention of students who can devote but one or two semesters to the subject is directed to the following courses: For engineers, 3, 5, 13; for agriculturists, 12, 14, 8, 11; for students in commerce, 3, 14, 8; for students in literature and science, 3, 1, 1a, 10, 14, 8, 11, 22.

COURSES FOR UNDERGRADUATES

I. DYNAMIC AND STRUCTURAL GEOLOGY.—The agents and processes involved in the development of the earth's present features. Lectures; laboratory. I; (5). Professor Rolfe, Mr. Fleener Prerequisite: Chemistry I or an equivalent.

1a. HISTORICAL GEOLOGY.—The evolution of the earth and its life. Lectures; laboratory work, consisting largely of a study of a few of the more characteristic fossils from the various horizons. (Continuing course I and introducing courses 9 and I6.) II; (5).

Assistant Professor Savage, Mr. Thompson

Prerequisite: Geology 1, 3, or 23.

2. Economic Geology.—The origin and manner of occurrence of minerals and rocks of economic importance, especially those found in North America. Lectures; laboratory. *II*; (3-5).

Associate Professor BAYLEY

Prerequisite: Geology 5; I and Ia, or 3.

- 3. General Geology.—Mineralogy; dynamic, historic, and economic geology; minerals; rocks; contour maps; fossils. Recitations; laboratory. (For students who wish to devote but one semester to geology.) I or II; (5). Daily, with occasional trips on Saturday.

 Professor Rolfe, Mr. Fleener
 - 4. THESIS COURSE.—Field or laboratory problems; complete re-

ports under the direction of an instructor; maps, sections, and figures based on observations. II; (5).

5. MINERALOGY.—Petrography and economic geology; the most common ores and minerals of scientific importance; crystallography; the characteristics of about 125 of the most important minerals; blow pipe analysis. Lectures; laboratory. $I_{\mathcal{F}}$ (5).

Associate Professor BAYLEY, Mr. EKBLAW

Prerequisite: Chemistry 1, 2, 3.

5a. Determinative Mineralogy.—Laboratory: the determination of minerals. Lectures: the characteristics, origin, and transformation of minerals. II; (3).

Associate Professor Bayley, Mr. Ekblaw

Prerequisite: Geology 5.

6. Physical and Optical Mineralogy.—Petrography; physical and optical properties of minerals; the practical use of polarized light in identifying the rock-forming materials. II; (3).

Associate Professor BAYLEY

Prerequisite: Geology 5.

7. Petrography.—Rocks; their types; origin; classification; the types studied with hand specimen and thin section. Lectures; laboratory. *I*; (3).

Associate Professor Bayley

8. Geography of Europe.—The continent of Europe; physiographic features, climate, and natural resources; the influence of physical conditions on present and historical development. II; (3).

Dr. Rich, Mr. Heitkamp

Prerequisite: Geology 23, or 1 or 3 with 14.

9. Paleontology.—Paleozoic invertebrate fossils; their classification and relationships; identification of the fossils; the literature of the subject. Lectures; laboratory. $I_{\mathcal{F}}$ (5).

Assistant Professor Savage, Mr. Thompson

Prerequisite: Geology 1a; recommended: I year of botany or zoology.

IO. REGIONAL GEOGRAPHY.—The continents of South America, Africa, Australia, Asia, and Europe; physiographic features, drainage, climate, and resources; the people and their characteristics; the control exerted by natural geographic factors over cultural and material development. II; (3).

Dr. Rich, Mr. Heitkamp

Prerequisite: Geology 23 or 1 or 3.

II. Geography of North America.—The continent of North America; physiography, climate, resources, peoples, and economic

geography; the bearings of physiographic and climatic factors on present and past development. I; (3). Dr. Rich, Mr. Heitkamp Prerequisite: Geology 23, or 1 or 3 with 14.

12. Geology of Soils.—The origin of the various classes of soils; mineral compositions; physical characteristics; transformations. (Particularly valuable to students of agriculture and all those who are especially interested in plant growth.) II; (5).

Professor Rolfe, Mr. Fleener

Prerequisite: Chemistry I or an equivalent.

13. Engineering Geology.—(Planned especially to meet the needs of engineering students; open only to students in engineering and ceramics.) Lectures; laboratory. II; (5).

Associate Professor Bayley, Mr. Ekplaw

- 14. Meteorology.—The heating and cooling, pressure, circulation, and moisture of the atmosphere; storms, and storm and weather forecasting; rainfall, climate. (Course 14 should be taken by all those who intend to do more than the most elementary work in geography, and, with course 8, should be taken with Economics 26 by students of commerce.)

 Dr. Rich, Mr. Heitkamp
- 15. Structural Geology.—The arrangement of the rocks which form the earth's crust and their distribution on its surface; mountains; faults; folds; other diastrophic phenomena. *I*; (5).

Associate Professor Bayley

Prerequisite: Geology 1a.

16. Stratigraphy.—The methods and criteria employed in the correlation of strata; the distribution of the successive geologic formations; the characteristic invertebrate faunas contained. Lectures; laboratory. II; (5). Assistant Professor Savage, Mr. Thompson

Prerequisite: Geology 9.

17. CONTINENTAL EVOLUTION.—The development of continents; the distribution of the strata of the successive geological systems; the character and variations of the sediments in each period with their faunas; the distribution of lands and seas, and their relative altitude in geologic ages. *I*; (5). Assistant Professor Savage

Prerequisite: Geology 1a or 11.

18. MESOZOIC AND TERTIARY PALEONTOLOGY.—The mesozoic and tertiary invertebrate fossil forms; the evolution of vertebrates during the same periods. (For students specializing in botany or zoology.) II; (5).

Assistant Professor Savage

Prerequisite: Geology 12, 9; or 10 credits in botany or zoology.

- 19. FIELD GEOLOGY—INTRODUCTORY COURSE.—Field trip of two weeks, in September, 1912, introductory to the courses in general geology and physiography. Including points in Indiana, Ohio, and the Wyandotte or Mammoth Cave, to illustrate the marked difference between the physiographic features of youthful and mature topography and of glaciated and non-glaciated areas; collection of fossils from the different rock exposures; their use in determining the age of strata. (Expenses about \$35.00.) Credit given on completion of a semester course in geology and on submission of written report on the observations and collections made during the trip.

 1; (2).

 Assistant Professor Savage
- 20. FIELD GEOLOGY.—The field determination of physical features and rock formations, with mapping and description, of a selected area. (A short field course.)

 Assistant Professor Savage
- 23. Physiography.—The earth's surface: its salient features, their origin, modification, and interrelationships; agencies and processes of change; meteorology; oceanography. (A general introductory course in physiography; should precede all further work in geography or physiography.) I; (5). Dr. Rich, Mr. Heitkamp
- 21. Geology of Coal.—The origin of coal; coal sampling; the stratigraphy of the coal measure deposits of North America, with special reference to the Illinois or Eastern Interior basin. I; (2).

Assistant Professor Savage

Prerequisite: Geology 13 or an equivalent.

22. Organic Evolution.—The evolution of plant and animal forms as indicated by the fossil record. II; (3).

Assistant Professor Savage

Prerequisite: Geology 1a, or one semester of zoology or botany.

24. Geomorphology.—Earth features and the influence of climatic conditions, character and attitude of the rocks, and diastrophic movements on surface forms. (An introduction to the literature of physiography; should be taken by all who intend to teach or to specialize in geography or geology.) II; (3). Dr. Rich

Prerequisite: Geology I or 3 or 23 and 1a.

COURSES FOR GRADUATES

Graduate students who are doing their principal work in other departments before taking work for graduate credit in geology must have had the equivalent of 10 sequential university credits in geology, 10 in chemistry, and 8 in physics.

Students who are candidates for an advanced degree in geology

must have had the equivalent of 20 sequential university credits in geology, 10 in chemistry, 8 in physics, and, if the work is to be along the lines of stratigraphy or paleontology, 10 in zoology or botany.

101. Advanced Crystallography.—The methods of measuring, projecting, and calculating crystal forms; the physical properties of crystallized bodies; indices of refraction; electrical properties; morphotropism. Three to five times a week; I or II.

Associate Professor BAYLEY

- 102. Petrography.—The igneous rocks; identification of types; classification; relationships. Lectures; laboratory. Two hours, five times a week; I.

 Associate Professor Bayley
- 103. Petrography.—Schists and sedimentary rocks. Two hours, five times a week; I.

 Associate Professor Bayley
- 105. INVERTEBRATE PALEONTOLOGY.—The literature and fossils of a special geological system; their geographic distribution; the geologic provinces; the origin and the routes of migration of the different faunas during the period. Largely individual work. Three to five times a week; I, II.

 Assistant Professor Savage
- 106. FIELD AND LABORATORY COURSE.—The geology and paleontology of a selected area in Illinois; report on the geology of the region, based on the data collected in the field. Three to five times a week; I, II.

 Assistant Professor SAVAGE
- 107. Areal and Structural Geology.—Individual work on some area exhibiting important structural or economic features. Once a week.

 Associate Professor Bayley
- 124. Advanced Physiography.—Individual work on field problems; advanced literature of physiography and geomorphology. *One to three times a week; I, II.*Dr. Rich

GERMANIC LANGUAGES AND LITERATURE

(Including SCANDINAVIAN)

Julius Goebel, Ph.D., Professor
Otto Eduard Lessing, Ph.D., Associate Professor
George Henry Meyer, A.M., Assistant Professor
Neil Conwell Brooks, Ph.D., Assistant Professor
George Tobias Flom, Ph.D., Assistant Professor, Scandinavian
Daisy Luana Blaisdell, A.M., Instructor

CHARLES MARSHALL POOR, Ph.D., Instructor CHARLES ALLYN WILLIAMS, Ph.D., Instructor LEONARD BLOOMFIELD, Ph.D., Instructor ARMIN HAJMAN KOLLER, Ph.D., Instructor PHILIP STEPHAN BARTO, A.M., Assistant FELIX EMIL HELD, A.M., Assistant

GERMAN

Honors

Candidates for honors in German must offer:

- 1. A minor of at least 12 hours in some other language; if this be English it must be exclusive of English 1 and work in rhetoric; if it be French or Spanish it must be exclusive of the first year's work.
- 2. A minor of at least 12 hours in any one of the other humanities, provided that the courses chosen contribute in a reasonable degree to the student's knowledge of European civilization. In order to be sure that the work offered will be accepted as fulfilling this general purpose, students are urged to consult with the department in planning their work in their minor subjects.
- 3. A general knowledge of European history, such as is gained from History 1, or an equivalent course.
- 4. An acceptable thesis; it may be one written in connection with some course.

FIRST-YEAR COURSES

- ELEMENTARY COURSE.—Grammar and easy reading. I; (4).
 Assistant Professor Meyer, Assistant Professor Brooks, Miss BLAISDELL, Dr. Poor, Dr. WILLIAMS, Dr. BLOOMFIELD, Mr. BARTO, Mr. HELD
- 3. NARRATIVE AND DESCRIPTIVE PROSE.—Grammar and syntax; reading of easy texts; exercises in prose composition. II; (4).

Assistant Professor Meyer, Assistant Professor Brooks, Miss Blaisdell, Dr. Williams, Dr. Bloomfield, Dr. Koller, Mr. Barto, Mr. Held

Prerequisite: German 1, or one year of high school German.

Note.—Three sections of German 3 will be offered in the first semester.

SECOND-YEAR COURSES

4. Descriptive and Historical Prose.—Selections from standard prose writers; sight reading; prose composition. I; (4).

Miss Blaisdell, Dr. Poor, Dr. Williams, Dr. Bloomfield, Dr. Koller, Mr. Barto, Mr. Held

Prerequisite: German I and 3, or two years of high school German.

Note.—Three sections of German 4 will be offered in the second semester.

5. Introduction to the Classics.—Schiller's Jungfrau von Orleans; Goethe's Hermann und Dorothea; or others of the classics. Prose composition. (Two sections of German 5 will be offered in the first semester.) II; (4).

MISS BLAISDELL, Dr. POOR, Dr. WILLIAMS, Dr. KOLLER, Dr. BLOOM-FIELD

Prerequisite: German 4, or three years of high school German.

6. Scientific Prose.—The rapid reading of works of a general scientific character. II; (4). Dr. Williams, Dr. Koller, Mr. Held Prerequisite: German 4.

THIRD-YEAR COURSES

Not more than ten hours of these courses may be counted towards a major without the approval of the head of the department.

7. Modern Fiction.—(Intended primarily for students who take German 5 in the first semester; not open to those who have had any work more advanced than German 5.) Two sections. II; (3).

Miss Blaisdell, Dr. Poor

Prerequisite: German 5, or equivalent.

10. Introductory Goethe Course.—Reading of works illustrating different periods in Goethe's development: Götz von Berlichingen; Egmont; Iphigenie auf Tauris; selections from Dichtung und Wahrheit. II; (3).

Assistant Professor Meyer, Assistant Professor Brooks
Prerequisite: German 14, or 24, or 16.

14. Introductory Schiller Course.—Reading of works illustrating different periods in Schiller's development: Lyrics and ballads; Kabale und Liebe; Braut von Messina. (Not open to freshmen.)

I; (3).

Assistant Professor Brooks

Prerequisite: German 5 or its equivalent.

16. Elementary Prose Composition.—Two sections. I; (2). Miss Blaisdell, Dr. Poor, Dr. Williams

Prerequisite: German 5, or equivalent.

Note.—One section of German 16 is offered in the second semester.

- 17. Intermediate Prose Composition.—(Two sections.) II;
 (3). Miss Blaisdell, Dr. Williams
 - Prerequisite: German 16.
- 24. Modern Drama.—Rapid reading of dramas by Grillparzer, Hebbel, Wildenbruch, and others. (Not open to freshmen.) *I;* (3).

 Dr. Poor

Prerequisite: German 5 or its equivalent.

28. German Lyrics.—First semester: The chief lyric poets of the classical period. Second semester: The chief lyric poets of the nineteenth century. The form, development, and different types of the lyric. (Each semester may be taken separately, although students are not advised to take the second without the first. Not open to freshmen.) I, II; (2).

Assistant Professor Meyer

Prerequisite: For first semester, German 5 or equivalent; for second semester, German 14, or 16, or 24, or first semester of 28.

PRIMARILY FOURTH-YEAR COURSES

8. Schiller.—The life of Schiller; Wallenstein and other selections. I; (3).

Associate Professor Lessing

Prerequisite: German 10, or 14, or 28.

[9a. Goethe's Faust.—The Faust legend and early Faust books and plays; the genesis of Goethe's Faust; reading of both parts. I, II; (2). Not given in 1912-13. Professor Goebel]

- 9b. Goethe and Schiller.—Interpretation of Goethe's poems. Goethe's Tasso; Schiller's Ueber naive und sentimentalische Dichtung. I, II; (2).

 Professor Goebel
- 11. German Literature After the Reformation.—Lectures; recitations; reports on assigned collateral reading. II; (3).

Associate Professor Lessing

Prerequisite: German 26.

25. Teacher's Course.—Discussion of methods; examination of text-books. (Open to seniors and special students who have 20 hours' credit in German.) II; (2). Assistant Professor Brooks

Prerequisite: First semester of German 29 or equivalent; completion of or registration in Education 1 or equivalent.

26. German Literature Before the Reformation.—Lectures; recitations; reports on assigned reading. I; (3).

Associate Professor Lessing

Prerequisite: German 10, or 24, or 28.

- 27. Lessing.—The life of Lessing; Nathan der Weise; Emilia Galotti, and other selections. II; (3). Associate Professor Lessing Prerequisite: German 8, or 10, or first semester of 9 or 29.
- 29. Advanced Prose Composition.—Themes on Germany and German life, based on suitable reading, discussed in German. I, II; (3).

 Dr. Koller

Prerequisite: German 17.

30. THESIS COURSE.—(Intended primarily for candidates for honors in German, but open to other seniors.) I, II; (1 or 2).

Professor Goebel, Associate Professor Lessing, Assistant Professor Meyer, Assistant Professor Brooks

31. MIDDLE HIGH GERMAN.—I; (2). Professor Goebel Prerequisite: Senior or graduate standing; at least three years of German.

Courses 9, 11, 29, and 31 are especially recommended to all candidates for graduate scholarships in German; these same courses, together with Course 25, are recommended to seniors who expect to teach German.

COURSES FOR GRADUATES

Students desiring to take German as a major are expected to have finished successfully a four years' course of undergraduate work in German, corresponding to the four years' course in German at this University. They are expected to be familiar with the principal works of the writers of the classical and modern periods of German literature, to show a general knowledge of the history of German literature and to be able to follow lectures in the German language.

Of collateral subjects, a reading knowledge of Latin and French is required. It is desirable that candidates for the degree of Ph.D. have some knowledge of Greek. All students are expected to have had a course in German History.

IOI. SEMINAR IN GERMANIC PHILOLOGY.—Schiller's Philosophic Poems. Training in original research; results of value may be published in the Journal of English and Germanic Philology. Once a week; I, II.

Professor Goebel

[103. Introduction to the Historical Study of the Germanic Languages.—History of German Philology; comparative grammar of the Old Germanic dialects. Lectures; discussions of special topics. Twice a week; II. Not given in 1912-13. Professor Goebel]

104. Gothic.—Grammar and literature. Twice a week; I.

Professor Goebel

105. OLD HIGH GERMAN.—Grammar and interpretation of the oldest literary documents. Three times a week: II.

Dr. BLOOMFIELD

- 109. GOETHE'S AND SCHILLER'S PHILOSOPHY.—Twice a week; I, II. Professor Goebel
- IIO. EARLY GERMAN DRAMA.—German drama up to the Reformation; medieval religious drama; Shrovetide plays; beginnings of the humanistic drama. Twice a week; I. Assistant Professor Brooks
- II3. GERMAN LITERATURE OF THE FIFTEENTH AND SIXTEENTH CENTURIES.—Survey of the literature on the back-ground of the general history of the time; Luther and the reformation; mastersingers and folksong; the reformation drama; Hans Sachs; Brant; Fischart; the chap books, the English comedians. Twice a week; II.

 Assistant Professor BROOKS
- 115. HISTORY OF GERMAN LITERATURE FROM GOETHE'S DEATH TO THE PRESENT TIME.—Twice a week; I, II.

Associate Professor Lessing

- 116. Medieval German Literature with Reference to the Political, Religious, and Social History.—Research. Twice a week; I.

 Associate Professor Lessing
- [117. HISTORY OF GERMAN LITERATURE DURING THE EIGHTEENTH CENTURY.—I. Not given in 1912-13. Professor Goebel]
- [118. THE GERMAN DRAMA SINCE SCHILLER.—Research. Twice a week; I, II. Not given in 1912-13. Associate Professor Lessing]
- [119. The German Novel.—Research. Twice a week; I, II. Not given in 1912-13. Associate Professor Lessing]
- 121a. The Nibelungenlied.—Lectures and interpretations. Twice a week; II. Professor Goebel
- [124. HISTORY OF THE DRAMA.—The beginnings of the drama and its development in the eighteenth century. Twice a week; I. Not given in 1912-13.

 Assistant Professor Meyer]

SCANDINAVIAN

UNDERGRADUATE COURSES, NOT OPEN TO FRESHMEN

[I. ELEMENTARY NORWEGIAN.—Grammar, reading, and introduction to the literature. I, II; (3). Not given in 1912-13.

Assistant Professor FLom]

- 2. ELEMENTARY SWEDISH.—Grammar and reading of easy prose; Selma Lagerlöf's En Herrgardssägen, and Runeberg's Fanrik Stals Sägner. 1; (2).

 Assistant Professor Flom
- 3. IBSEN'S Brand AND Peer Gynt.—Advanced Norwegian. Interpretation of the two dramas; the language and style. Olsen's Brand. II; (2).

 Assistant Professor Flom

Prerequisite: Course I or the equivalent.

[4. ESAIAS TEGNER.—Tegner's Frithjofs Saga; genesis, development, and influence. Lectures on Swedish romanticism and "The Gothic School." II: (2). Not given in 1012-13.

Assistant Professor FLOM]

- [5. Henrik Ibsen.—Lectures and interpretation of selected works. Early influences; development of his view of life. II; (2). Not given in 1912-13.

 Assistant Professor Flom]
- 6. IBSEN'S SOCIAL DRAMAS.—Lectures; interpretation of four of the social dramas; Ibsen's technique. Archer's translation is used. II; (2).

 Assistant Professor Flom

Prerequisite: Junior standing.

12. Norse Mythology.—Primitive religion; the religious belief of the Norseman in pre-christian times; interpretation of the principal myths; theogony, cosmogony, and the myth of the end of the world. I; (2).

Assistant Professor Flom

ADVANCED COURSE FOR UNDERGRADUATES AND GRADUATES

[11. Survey of the History of the Swedish Language and Literature.—Lectures. Not given in 1912-13.

Assistant Professor FLOIT]

COURSES FOR GRADUATES

Preparation for graduate work in the Scandinavian languages or literature must include a reading knowledge of one of the Scandinavian languages and systematic work in the undergraduate courses in Scandinavian or their equivalent. Any graduate student in language may, however, be admitted to the purely philological courses.

IOI. OLD NORSE.—Introduction to the language as a member of

the Germanic group. Reading of the *Volsungasaga* with selections from the King's Sagas. *I, II*. Assistant Professor Flom

103. OLD SWEDISH.—Introduction to the language. Noreen's Altschwedische Grammatik and Lesebuch.

Assistant Professor Flom

110. Advanced Old Norse.—Mythical lays of the Elder Edda. Twice a week; I. Assistant Professor Flom

130. THE RUNIC INSCRIPTIONS.—Lectures on the runes and interpretation of the Germanic and Scandinavian inscriptions; Germanic grammar. Twice a week; II. Assistant Professor Flom 150. Research.—Special problems. Assistant Professor Flom

CDEEN

GREEK

(See THE CLASSICS.)

HISTORY

*Evarts Boutell Greene, Ph.D., Professor
Guy Stanton Ford, Ph.D., Professor
Clarence Walworth Alvord, Ph.D., Associate Professor
Laurence Marcellus Larson, Ph.D., Associate Professor
William Spence Robertson, Ph.D., Assistant Professor
Solon Justus Buck, Ph.D., Research Associate
Arthur Charles Cole, Ph.D., Instructor
August Charles Krey, A.M., Instructor
Elizabeth Parnham Brush, A.M., Assistant
Paul Frederick Reiff, Ph.D., Research Assistant

Students who expect to teach history or to make that subject a major are advised to take History I during their freshman year. For the sophomore year History 3, 11, and 23 are recommended. During the junior and senior years students may select courses from groups B and C, in accordance with their individual tastes and interests. For those who expect to teach in secondary schools some work in ancient history is desirable.

The importance of thorough linguistic training is also emphasized, especially in Latin, French, and German.

^{*} On leave, February 1, 1912, to February 1, 1913.

Honors

Candidates for honors in history must offer:

- 1. Not less than 24 hours in this subject, including History 1 and 3, at least 3 hours of English history, and at least 6 hours in Group C.
- 2. Two minor subjects aggregating at least 24 hours, approved by the department, including in each case some advanced work. The minors must be selected from the following list: Economics; political science; philosophy, including a course in logic and one in the history of philosophy (One course in education or psychology may be accepted as a part of the requirement in philosophy.); English literature, not including English I; the classics. Economics or political science must be offered as one of the minor subjects. The ability to read simple prose in one foreign language is ordinarily expected of candidates in history, and students who have pursued the study of Romance languages or Germanic languages so far as to include courses in the history of literature may count one of these subjects as a minor.

A. COURSES OPEN TO FRESHMEN

(Seniors taking these courses may receive half credit only.)

I. CONTINENTAL EUROPEAN HISTORY.—Europe from the fourth century to the present time. (The work of neither semester may be taken separately without special permission.) I, II; (4).

Professor Ford, Mr. Krey, Miss Brush

- II. HISTORY OF ENGLAND TO 1589.—This course may be combined with English economic history, (Economics 7), or Continental European history (History 1). II; (3). Associate Professor Larson
 - B. UNDERGRADUATE COURSES NOT OPEN TO FRESHMEN
- 3. HISTORY OF THE UNITED STATES.—First Semester: The Colonial era; the Revolution; genesis of the federal constitution. Second semester: The United States under the constitution. (The work of either semester may be taken separately.) I, II; (3).

Professor Greene, Assistant Professor Robertson, Dr. Cole Prerequisite: One year of college work.

- 5. HISTORY OF GREECE.—I, II; (3). See Greek 20.
- 6. HISTORY OF ROME.—I, II; (3). See Latin 19.
- 7. The Revolutionary and Napoleonic Era.—French conditions in the eighteenth century before 1774; the events between 1774

and 1789 which precipitated the revolution in France; the reform work of the early revolution; the Napoleonic regime in France and Europe. *I*; (3).

Professor Ford

Prerequisite: History 1.

17. THE HISTORY OF ILLINOIS.—The development of a typical commonwealth in the Middle West. I; (2).

Associate Professor ALVORD

Prerequisite: History 3.

18. THE TEACHING OF HISTORY.—Preparation of students for the practical problems of historical teaching in secondary schools. II; (2).

Associate Professor Larson, and other members of the department

Prerequisite: History I, 3 or their equivalents; senior standing. 20. Europe in the Nineteenth Century.—The national movements of the nineteenth century and those European conditions which form the basis of modern world politics. II; (3).

Professor FORD

Prerequisite: History 1

on the continent. I; (3).

23. HISTORY OF MODERN ENGLAND.—(A continuation of History II, following the same general plan; but emphasizing the colonial and imperial phases of English history.) I; (3). Dr. Cole Prerequisite: History I or II.

C. COURSES FOR GRADUATES AND QUALIFIED UNDERGRADUATES

(The ability to use French and German is desirable in all of these courses and is essential in some of them.)

- 4. THE CONSTITUTIONAL HISTORY OF ENGLAND.—First semester: institutional origins; second semester: modern constitutional practice. (For students who wish to specialize in English history, political science, or law.) I, II; (3). Associate Professor Larson Prerequisite: One year of college history.
- 8. Medieval Civilization.—Religious, economic, and intellectual development of medieval society; social changes and the growth of culture in England; English sources; corresponding movements
- 9. The ERA of the Renaissance.—Political, religious, and economic history of Europe during the fourteenth and fifteenth centuries; the intellectual and artistic revival. (Continuation of course 8; either may be taken separately.) II; (3).

Associate Professor Larson, Mr. Krey

Associate Professor LARSON

- THE DEVELOPMENT OF AMERICAN SOCIETY IN THE EIGHTEENTH CENTURY.—An introduction to the study of the American Revolution. II; (4).

 Professor Greene
- [12. HISTORY OF GERMANY.—Settlement; eastern expansion; development of German cities; the Reformation; rise and development of Brandenburg-Prussia since 1640; I, II; (2). Not given in 1912-13.

 Professor Ford
- [14. The Making of the Federal Constitution.—The events from 1783-1789 which resulted in the framing and ratification of the federal convention of 1787; the contemporary arguments for and against the ratification of the Constitution. II; (3). Not given in 1912-13.

 Professor Greene]
- 15. AMERICAN HISTORY, 1820-1865.—Expansion; slavery; sectionalism; the Civil War. II; (3). Dr. Cole Prerequisite: History 3.
- 16. THE HISTORY OF THE EXPLORATION AND COLONIZATION OF THE WEST FROM THE EARLIEST TIMES TO 1818.—The struggle of France, Great Britain, Spain, and the United States for the possession of the West; the colonial policy followed by each nation. I; (2).

 Associate Professor Alvord

Prerequisite: History 3.

21. THE HISTORY OF THE UNITED STATES SINCE THE CIVIL WAR.—Historical introduction to contemporary American politics. I; (3). Assistant Professor ROBERTSON

Prerequisite: History 3.

26. The History of the Latin-American Colonies.—The political, economic, social, and intellectual life of Spain during the period of discovery; the exploration, settlement, and civilization of Spanish-America and the Philippines; the exploration and colonization of Brazil. *I*; (2). Assistant Professor ROBERTSON

Prerequisite: History 1 or 3.

27. THE HISTORY OF LATIN-AMERICA FROM THE WARS OF INDE-PENDENCE TO THE PRESENT TIME.—The national history of the leading Latin-American states; political parties; existing governments; relations with Europe and the United States. The old regime in Texas, Mexico, and California. II; (2).

Assistant Professor Robertson

Prerequisite: History 3.

28. THESIS.—(For candidates for honors and for other seniors who wish special training in investigation.) I, II; (2).

Assistant Professor Robertson and other members of the department

COURSES FOR GRADUATES

Graduate courses in history at the University of Illinois are of three kinds; I. Instruction in methodology, historiography, and bibliography. This work (in course 103) is required of all graduate students in history during their first year. 2. Seminar courses for the study of special fields with a view primarily to training in the methods of historical criticism and research. 3. Courses for inforation and guidance in general reading.

Research work is offered in the following fields: Medieval history; English history with emphasis upon medieval institutions; modern European history with special reference to the rise of Prussia and the revolutionary and the Napoleonic era; American history with special reference to institutions, colonial society, western development, and the period 1820-65; the history of Latin America.

A student entering upon graduate work should have had at least the equivalent of the introductory college courses in English, Continental European, and American history. All students of history should have a reading knowledge of German and French; for medieval history some knowledge of Latin is indispensable, and in certain fields of American history Spanish is needed.

Attention is called to the fact that the University of Illinois has for some time cooperated with the Illinois State Historical Society and the trustees of the State Historical Library, in the gathering and editing of archive material. As a result of this relation instructors and graduate students in the department have contributed to the publications of these state organizations and have been given useful training in the study of manuscript and printed material.

The Historical Club, consisting of instructors and graduate students in the department, meets once a month. The program is devoted to reviews of current progress in historical work and the results of the investigations of the members.

ILLINOIS SURVEY.—Students of history also have an opportunity to pursue research in western history in connection with the Illinois Survey.

The Illinois Survey is the name given to work which has been carried on at the University for several years in the study of Illinois as a typical Mississippi Valley state. The purpose is to write the history of the State from all points of view. Therefore various departments are engaged in the work. A great deal of material has been gathered and considerable work done so that there is abundant research material for students interested in this field.

IOI. SEMINAR IN AMERICAN HISTORY.—General bibliography of American history; cooperative study of typical problems. Two hours, once a week: I. II.

Professor Greene, Associate Professor Alvord, Dr. Buck 102. Studies in English History.—Twice a week; I, II.

Associate Professor Larson

103. HISTORICAL BIBLIOGRAPHY AND CRITICISM.—Selected problems in various fields. (Required of all candidates for an advanced degree in history who do not present evidence of similar training elsewhere. Twice a week; I, II. Professor FORD and others

IO4. SEMINAR IN MODERN EUROPEAN HISTORY.—The diplomatic relations between France and Prussia in the period of the French Revolution. I, II. Professor Ford

105. The History of Western Expansion, 1763-1818.—Lectures; readings; problems in the interpretation of western history.

Once a week; I, II. Associate Professor Alvord

III. Spanish-American Relations.—The relations of the Latin-American states with Europe and the United States; the Monroe Doctrine; the development of international trade, etc. A reading knowledge of either French or Spanish is expected.) Once a week; I, II.

Assistant Professor ROBERTSON

[112. SELECTED TOPICS IN THE HISTORY OF THE AMERICAN COL-ONIES IN THE EIGHTEENTH CENTURY.—Two hours a week; II. Not given in 1912-13. Professor Greene]

HORTICULTURE

Joseph Cullen Blair, M.S.A., Professor, Pomology
John William Lloyd, M.S.A., Professor, Olericulture
Charles Spencer Crandall, M.S., Professor, Pomology
Herman Bernard Dorner, B.S., Assistant Professor, Floriculture
Bethel Stewart Pickett, M.S., Assistant Professor, Pomology
Wilhelm Miller, Ph.D., Assistant Professor, Landscape Horticulture

ERNEST WINFIELD BAILEY, M.S., Associate, Pomology
CHARLES ELMER DURST, B.S., Instructor, Olericulture
ARNO H NEHRLING, Instructor, Floriculture
RALPH RODNEY ROOT, M.L.A., Instructor, Landscape Gardening
SIMEON JAMES BOLE, A.M., Instructor, Pomology
JOHN JOSEPH GARDNER, B.S.A., Instructor, Pomology
LAWRENCE EARL FOGELSONG, B.S., Instructor, Pomology
HORACE WHITTIER PEASLEE, Instructor, Landscape Design

COURSES FOR UNDERGRADUATES

Floriculture: Horticulture 4, 15a, 15b, 19a, 19b, 30, 31, 32, 35

Forestry: Horticulture 9

General Horticulture: Horticulture 1a, 1b, 5, 6, 7, 11, 12

Landscape Gardening: Horticulture 10a, 10b, 23a, 23b, 24a, 24b, 25a, 25b, 27, 28, 36

Olericulture: Horticulture 3, 20, 34 Pomology: Horticulture 2, 8, 17, 18, 33

1a. ELEMENTS OF HORTICULTURE.—Fruit growing, vegetable gardening, and ornamental planting, with special reference to the farm home. (Required of all freshmen in the general course in agriculture.) Lectures; assigned readings; practical exercises. *I*; (2). Professor LLOYD, Assistant Professor PICKETT, Mr. BOLE, Mr. ROOT

Ib. ELEMENTS OF HORTICULTURE.—(Continuation of Ia. Required of all freshmen in the general course in agriculture.) II;

Professor Lloyd, Assistant Professor Pickett, Mr. Bole, Mr. Root

2. SMALL FRUITS AND GRAPES.—The strawberry, raspberry, blackberry, dewberry, currant, gooseberry, grape. History; extent of cultivation; soil; location; fertilizers; propagation; planting; tillage; pruning; insect enemies; diseases; varieties; harvesting; marketing. Lectures; reference readings. II; (2).

Assistant Professor Pickett, Mr. Bole, Mr. Gardner Prerequisite: Horticulture 1a and 1b or their equivalents, 5.

3. Vegetable Gardening.—Cultural requirements of each of the common vegetables. Lectures; one practical exercise a week. II;
(3). Professor LLOYD, Mr. DURST, Mr. GARDNER

Prerequisite: Horticulture 1a and 1b or their equivalents.

4. PLANT HOUSES.—Construction, cost, and maintenance; heating; ventilating. I; (3). Assistant Professor Dorner

5. PLANT PROPAGATION.—Grafts; buds; layers; cuttings; seeds. Lectures; laboratory; quizzes. II: (5).

Assistant Professor Dorner, Mr. Nehrling

6. Nursery Methods.—Some details of nursery management and their relation to horticulture. Lectures; reference readings. II; (2). Assistant Professor Pickett, Mr. Bailey, Mr. Gardner

Prerequisite: Horticulture 5; Entomology 4.

7. Spraying.—Materials, appliances, and methods employed in combating insects and fungous diseases. Lectures; reference readings, laboratory; field work. II; (3).

Professor Lloyd, Mr. Bole, Mr. Gardner

Prerequisite: Horticulture 1a and 1b or their equivalents; Chemistry 1; Entomology 4.

8. Orcharding.—Pomaceous, drupaceous, and nut fruits; management of large commercial orchards; harvesting; grading; packing; storing; marketing. *I*; (5).

Professor Crandall, Assistant Professor Pickett, Mr. Bailey Prerequisite: Horticulture 1a and 1b or their equivalents, 5; Botany 1; Entomology 4.

19. Forestry.—Forest trees; uses; distribution; artificial production; relations of forest and climate; forestry legislation and economy. II; (2). Not given in 1912-13.

Prerequisite: Botany I, or an equivalent.]

IOA. LANDSCAPE GARDENING.—Plant studies; field trips; text books; lectures; drafting. (Open to all students.) I; (3).

Mr. Root

IOb. LANDSCAPE GARDENING.—(Continuation of IOa.) II; (3).

Mr. Root

Prerequisite: Horticulture 10a.

II. STUDY OF CULTIVATED PLANTS.—The relationship and classification of certain economic and ornamental plants of the temperate zone; identification of species; examination of living plants and herbarium specimens. Lectures; assigned readings. *I*; (2).

Professor Blair, Professor Crandall

Prerequisite: Botany 2.

12. Evolution of Horticultural Plants.—History, botanical classification, and geographical distribution of cultivated plants; modification under culture; theoretical causes and observed factors

that influence variation; particularly food supply, climate, and cross-fertilization. *I*; (3). Professor Crandall, Mr. Bole

Prerequisite: Two years of university work, including Horticulture 8 and Botany 2.

15a. PRINCIPLES OF PLANT GROWING.—Preparation of soils for greenhouse crops; fertilizers; potting and shifting plants; watering. Lectures; practical greenhouse work. II; (5).

Assistant Professor Dorner, Mr. Nehrling

Prerequisite: Horticulture 5; Botany 1.

15b. COMMERCIAL CROPS.—Greenhouse plants and cut flowers for wholesale and retail markets; the care and marketing of the crops. Lectures; greenhouse work. I; (5).

Assistant Professor Dorner, Mr. Nehrling

Prerequisite: Horticulture 15a.

- 17. COMMERCIAL FRUIT CULTURE.—Practical work in houses and fruit plantations. (For students specializing in horticulture). *I*; (5). Professor Crandall, Assistant Professor Pickett, Mr. Bole Prerequisite: Horticulture 2, 8; Economics 2.
- 18. Experimental Horticulture.—Methods and difficulties in horticultural investigations; the planning of experiments; recording and interpretation of results. (For advanced students preparing for Experimental Station work.) II; (5).

Professor Blair, Professor Lloyd, Professor Crandall Prerequisite: Twenty hours' work in horticulture.

- 19a. Amateur Floriculture.—Window gardening; growing of flowers upon the home grounds; containers; potting soils; fertilizers; preparation and planting of flower beds; propagation and culture of plants suitable for window and garden. I; (1). Mr. Nehrling
 - 19b. Amateur Floriculture.—(Continuation of 19a.) II; (1).
 Mr. Nehrling
- 20. MARKET GARDENING.—Growing and handling vegetables for market. Practical exercises; reference readings. II; (3).

Professor LLOYD, Mr. DURST

Prerequisite: Horticulture 3; Economics 2.

- 22. Special Investigation and Thesis Work.—I, II; (5-10).
- 23a. Landscape Design.—The composition of public and private estates; plans; reference reading. *I*; (3). Mr. Root *Prerequisite*: Horticulture 10b.

23b. Landscape Design.—(Continuation of 23a.) II; (3).
Mr. Root

Prerequisite: Horticulture 23a.

24a. Ornamental Trees and Shrubs.—Hard wooded ornamental plant material,—characters, culture, suitability for landscape compositions; problems in arrangement; planting plans. Field trips in fall and spring; planting plans in winter months. I; (3).

Mr. Root

Prerequisite: Horticulture 10b.

24b. Ornamental Trees and Shrubs.—(Continuation of 24a.) II; (3). Mr. Root

Prerequisite: Horticulture 24a.

25a. Advanced Landscape Design.—Problems in park design; playgrounds; large private estates; cemeteries; boulevards. *I;* (3, or more by special arrangement).

Mr. Root

Prerequisite: Horticulture 23b.

25b. Advanced Landscape Design.—(Continuation of 25a.) II;
(3, or more by special arrangement).

Mr. Root

Prerequisite: Horticulture 25a.

27. Landscape Practice.—Grading plans; specifications; working drawings; details for construction of garden accessories. *I*; (2).

Mr. Root

Prerequisite: Civil Engineering 22, Horticulture 23b.

28. Exorics.—Tender decorative plants used in landscape gardening. II; (1). Mr. Root

30. Decorative and Bedding Plants.—Tropical and subtropical plants used in decorative work in the conservatory; tender plants used in out-door bedding; Lectures; practical greenhouse work. II; (5).

Assistant Professor Dorner, Mr. Nehrling

Prerequisite: Horticulture 15a.

31. Garden Flowers.—The propagation and growing of annuals, herbaceous perennials, bulbs, and shrubs for cut flowers and ornamental plantings. *I*; (3). Assistant Professor Dorner

Prerequisite: Horticulture 5; Botany 1.

32. FLORAL DECORATION.—Cut flowers and plants in decorative work; arrangement of flowers in baskets, designs, and bouquets; table decoration; house decoration. (For floricultural students.)

II; (3).

Assistant Professor Dorner

33. Systematic Pomology.—Description, nomenclature, and classification of native and sub-tropical fruits; critical descriptions

and identification with special reference to relationships and classifications of varieties; judging and displaying fruits. I; (2).

Mr. BAILEY

Prerequisite: Horticulture 8.

[34. Vegetables Under Glass.—I; (3). Not given 1912-1913.

Professor Lloyd. Mr. Durst

Prerequisite: Horticulture 3, 15a.]

[35. Private Conservatory Work.—Types of plants for large conservatories; arrangement; care. II; (3). Not given in 1912-1913. Assistant Professor Dorner, Mr. Nehrling

Prerequisite: Horticulture 15a, 4.]

36. Landscape Gardening Literature.—Reference readings; the literature on landscape gardening. II; (2). Mr. Root

COURSES FOR GRADUATES

At least two years of collegiate work in horticulture and allied subjects and the requisite preparation for the chosen topics are required for entrance upon major work in this department.

102. Pomology.—Special problems in the adaption, propagation, cultivation, or pruning of small fruits.

Professor Crandall

103. OLERICULTURE.—Special problems in the structure, cultural requirements, and improvement of vegetables.

Professor Lloyd

108. Pomology.—Special problems in the relationship, adaption, improvement, propagation, cultivation, pruning, protection, preservation, or marketing of orchard fruits.

Professor Blair, Professor Crandall

109. Forestry.—Problems in general forestry and investigation of forest growths.

115. FLORICULTURE.—The horticultural status of various flowering plants, or special problems in the culture of greenhouse plants.

Assistant Professor Dorner

HOUSEHOLD SCIENCE

ISABEL BEVIER, Ph.M., Professor, Household Science
NELLIE ESTHER GOLDTHWAITE, Ph.D., Assistant Professor, Household Science

CHARLOTTE MITCHELL GIBES, A.M., Associate, Textiles
HELENA MAUD PINCOMB, B.S., Associate, Household Science
HARRIET BECKWITH RINAKER, M.A., Instructor, Household Science
NINA BELLE CRIGLER, B.S., Instructor, Household Science

CORA EMELINE GRAY, A.M., Instructor, Household Science RUTH WHEELER, A.B., Instructor, Household Science MAUDE PARSONS, B.S., Instructor and Director of Lunch Room GEORGIA FLEMING, B.S., Assistant, Textiles GRACE ESTHER STEVENS, A.B., Assistant, Household Science

FOOD

I. PRINCIPLES OF THE SELECTION AND PREPARATION OF FOOD.—
The nature and use of foods, their chemical composition, and the changes effected by heat, cold, or fermentation; the principles of selection, illustrated by marketing expeditions; processes of the manufacture of foods; combinations of different kinds. II; (3).

Miss Crigler, Miss Rinaker, Miss Gray

Prerequisites: Entrance credit in physics; Chemistry 1.

6. Economic Uses of Food.—(Continuation of 1.) The economics of the food question; uses and applications of preservatives. I; (3).

Miss Cricler, Miss Rinaker, Miss Gray

Prerequisite: Household Science 1.

14. Special Problems in Connection with the Service of Food.—(Continuation of 6.) Problems of marketing, domestic storage, management of menus, and utilization of waste food materials as modified by special conditions. II; (3). Miss Gray Prerequisite: Household Science 6.

5. DIETETICS.—The principles of diet; the relation of food to health; influence of age, sex, and occupation on diet; the construction of dietaries; dietetic treatment of certain diseases. Laboratory practice. II; (3).

Assistant Professor Goldthwaite

Prerequisite: Household Science 1, 6; Physiology 4; Chemistry

I, 2, 3.

4. FOOD AND NUTRITION.—Application of the principles of pure science to the physiological, chemical, or bacteriological problems of food and nutrition. Individual investigation. *I*; (5).

Assistant Professor Goldthwaite

Prerequisite: Botany 5; Chemistry 1, 2, 3, 13a, 9, 9c; five hours in botany or zoology; Household Science 1, 5, 6.

THE HOUSE

2. Home Architecture and Sanitation.—Situation, surroundings, and construction of the house; hygiene of the home; heating, lighting, ventilating, water supply, and drainage. Lectures on house

planning; exercise in making skeleton plans, and on sanitary plumbing and fixtures and internal drainage. I; (2).

Professor Bevier, Professor Mann, Professor White, Miss Gibbs, Miss Pincomb, Mr. Clark

3. ELEMENTARY HOME DECORATION.—(Continuation of 2.) Evolution of the house; homes of primitive peoples; theory of color and its application in home decoration; evolution of the home; furnishings from a sanitary and artistic standpoint. II; (2).

Professor Bevier

Prerequisite: Art and Design 12, Household Science 2.

10. HOUSEHOLD MANAGEMENT.—Organization of the household; expenditure of income; care of the house and family; principles of home nursing; other essentials of a well-ordered home. (Open to juniors and seniors.) I; (2). Miss Gray

Prerequisite: Household Science 1, 2, 5, 6; Economics 1.

TEXTILES

- 7. Textiles.—Development of primitive industries; production of fibers used in textile manufacture; practice in judging cloth; application of the principles of selection of color and design in costumes. *I*; (2).

 Miss Gibbs
- 12. HOUSEHOLD ART AND CLOTHING.—(Continuation of 7.) Materials suitable for various uses in home and in clothing; texture, quality, design in relation to form; color in relation to environment and personality; hygienic properties and cost. II; (3).

Miss Gibbs, Miss Fleming

Prerequisite: Household Science 7; Art and Design 1, 12; 30 hours of university work.

17. Problems in the Study of Textiles.—The quality of material; microscopic and chemical analysis of fabrics; movements related to the textile industry. Lectures; laboratory. II; (3).

Miss GIBBS

Prerequisite: Household Science 7, 12; Chemistry 1, 2, 3.

COURSES FOR TEACHERS

II. Teachers' Course.—The best method of presenting the work; its correlation with other subjects; practice in planning such courses, and some opportunity for presenting them. (For the prospective supervisor of the subject, or teacher in the graded schools. Open to seniors.) II; (3). Professor Bevier, Miss Pincomb

Prerequisite: Household Science 1, 2, 3, 5, 6, 7, 12, 13; laboratory work in sewing, Saturday morning, first semester.

- 13. HISTORY OF HOME ECONOMICS.—Origin and development of home economics; the work in different types of institutions; the planning of courses for these types. Open to juniors and seniors.)

 I; (1). Professor Bevier
- 9. Seminar.—Different phases of home economics; individual problems. II; (3). Professor Bevier

Prerequisite: Senior standing.

ECONOMICS OF THE FAMILY

15. The Economics of the Family Group.—History and various forms of the family; its industrial organizations; money and other income; the laws of consumption; interplay of economic, physiological, and psychological motives in expenditure and consumption; reaction of the changing forms of modern industry on family industry; economic, social, and legal relations of the members of the family; economic position of woman in modern society; the domestic service problem; retail and wholesale market. II; (3).

Miss GRAY

Prerequisite: Household Science 3, 10, 12, 14; Economics 1.

16. Problems in the Economics of the Family Group.—Individual work in the senior seminar in economics. I, II; (2-4).

Professor Kinley

Prerequisite: Household Science 15.

COURSES FOR GRADUATES

Students who wish to do graduate work in Household Science will find it to their advantage to specialize in either the scientific or the economic phases of the subject. In either case they should be able to offer an equivalent for twenty hours of household science given in the University of Illinois, with a minimum of one and one-half years of chemistry, a year of biological science, and a year of either economics or sociology.

IOI. HOME ECONOMICS.—The industrial, educational, and sociological aspects of the origin and development of home economics.

Professor Bevier

IO2. Special Investigation.—Problems in the application of the principles of bacteriology, chemistry, and physiology to the ordinary processes used in the preparation of food.

Professor Bevier

ITALIAN

(See ROMANCE LANGUAGES AND LITERATURE.)

IOURNALISM

(See Rhetoric 12, 15, 17, 19, under The English Language and Literature.)

LANDSCAPE GARDENING

(See HORTICULTURE.)

LATIN

(See THE CLASSICS.)

LAW

OLIVER ALBERT HARKER, A.M., LL.D., Professor, Dean FREDERICK GREEN, A.M., LL.B., Professor EDWARD HARRIS DECKER, LL.B., Professor JOHN NORTON POMEROY, A.M., LL.B., Professor CHESTER GARFIELD VERNIER, A.B., J.D., Professor, Secretary WILLIAM GREEN HALE, B.S., LL.B., Professor I MAURICE WORMSER, A.B., LL.B., Assistant Professor

- I. Contracts.—Williston's Cases; selected Illinois cases. (First year. Open to students in Literature and Arts, with six hours' credit.) I; (5): II; (3).

 Professor Decker
- 2. TORTS.—Ames & Smith's Cases. (First year. Open to students in Literature and Arts, with credit.) I, II; (3).

Professor HALE

3. REAL PROPERTY.—Gray's Cases, Vols. I and II. (First year. Open to students in Literature and Arts, with credit.) II; (3).

Assistant Professor WORMSER

4. Common Law Pleading.—(First year. Open to students in Literature and Arts, with credit.) II; (3). Professor Harker

4a. Illinois Procedure.—(Third year.) I; (3).

Professor HARKER

- 5. Criminal Law and Criminal Procedure.—Mikell's Cases. (First year. Open to students in Literature and Arts, with credit.)

 1; (4). Professor Green
- 6. Personal Property.—Gray's Cases, Vol. I. (First year. Open to students in Literature and Arts, with credit.) I; (2).

Professor VERNIER

- 7. Domestic Relations.—Woodruff's Cases on Domestic Relations (2nd ed.) (First year.) II; (2). Professor Vernier
 - 8. EVIDENCE.—Thayer's Cases. (Second year.) I; (3): II; (2).

Professor HALE

- 9. SALES.—Williston's Cases (2nd ed.) (Elective, second or third year.) II; (3). Professor HALE
- io. Real Property.—Gray's Cases, Vols. II and III. (Second year.) I; (4). Assistant Professor Wormser
 - II. Agency.—Wambaugh's Cases. (Second year.) I; (3).

 Professor Vernier
 - 12. Equity.—Ames' Cases. (Second year.) I; (3); II; (2).

 Professor Pomeroy
- 13. Damages.—Beale's Cases, (2nd ed.) (Elective, second or third year.) I; (2). Professor Decker
- 14. CARRIERS.—Green's Cases. (Elective, second or third year.)
 II; (3). Professor Green
- 15. BILLS AND NOTES.—Huffcut's Cases (Colson's Ed.). (Third year.) 1; (3). Professor Vernier
 - rear.) 1; (3).

 Professor Vernier

 16. Trusts.—Ames' Cases. (Elective, third year.) II; (3).
- Professor Vernier

 17. Private Corporations.—Canfield & Wormser's Cases.
- (Third year.) I; (2): II; (2). Assistant Professor Wormser 18. Wills.—Costigan's Cases. (Second year.) II; (2).
- Professor Pomerov

 19. Partnership.—Mechem's Cases (2nd ed.) (Third year.) I;

 (2). Professor Hale
- 20. EQUITY PLEADING.—Thompson's Cases on Equity Pleading; Selected Illinois Cases. (Second year.) II: (2).
 - Professor Harker
 - 21. Suretyship.—Ames' Cases. (Third year.) II; (3).
 - Professor Decker
- 22. Constitutional Law (a).—McClain's Cases. (Third year.) I; (3). Professor Green
- 23. Mortgages and Recording Acts.—Wyman's Cases on Mortgages and part of Vol. VI of Gray's Cases on Property. (Elective, third year.) II; (2).

 Professor Pomeroy
- 24. MUNICIPAL CORPORATIONS.—Beale's Cases on Municipal Corporations. (Elective, third year.) I; (2). Professor Pomerov
- 25. BANKRUPTCY.—Williston's Cases. (Elective, third year.)
 II; (2). Professor Decker
 - 26. Moot Court.—(Second year.) I, II; (2).
 - Professor HARKER
 - [27. FUTURE INTERESTS IN PROPERTY.—Gray's Cases, Vol. V.

(Elective, second or third year. Not given in 1912-13, but in 1913-14 and in alternate years.) II; (2).]

[28. INSURANCE.—Wambaugh's Cases. (Elective, second or third year. Not given in 1912-13, but in 1913-14 and in alternate years.) II; (2). Professor Green

29. Conveyancing.—Gray's Cases on Property, Vol. III and part of Vol. VI (2nd ed.) (Elective, second or third year. Given in 1912-13 and in alternate years.) I; (2).

30. PUBLIC INTERNATIONAL LAW.-Lawrence's Principles and

Scott's Cases. (Elective, second or third year.) 1: (3).

Professor GARNER

[31. CONFLICT OF LAWS.—Beale's Shorter Selection of Cases on Conflict of Laws. (Elective, third year.) Not given in 1912-13, but in 1913-14 and in alternate years. II; (2). Professor Vernier

32. Quasi-Contracts.—Woodruff's Cases. (Elective, second or third year. Given in 1912-13 and in alternate years.) II; (2).

Professor VERNIER

33. Constitutional Law (b).—McClain's Cases. II; (2).

Professor Green

34. Public Service Companies.—Wyman's Cases (2nd ed.) (Elective, second or third year.) II; (2). Professor Green

LIBRARY SCIENCE

PHINEAS LAWRENCE WINDSOR, Ph.B., Director

Frances Simpson, M.L., B.L.S., Assistant Director, Assistant Professor, Library Science

FLORENCE RISING CURTIS, A.B., B.L.S., Instructor, Library Economy ERNEST JAMES REECE, Ph.B., Instructor, Library Economy

ETHEL BOND, A.B., B.L.S., Instructor, Library Economy

EDNA LYMAN SCOTT, Special Lecturer, Library work with children CATHERINE OAKS, A.B., B.L.S., Reviser

FRANCIS KEESE WYNKOOP DRURY, A.M., B.L.S., Lecturer, Order work PHILIP SANFORD GOULDING, A.B., Lecturer, Cataloging JACOB HODNEFIELD, A.M., Lecturer, Exchanges EMMA FELSENTHAL, Ph.B., B.L.S., Lecturer, General Reference ALICE SARAH JOHNSON, B.L.S., Lecturer, General Reference EMMA REED JUTTON, B.L.S., Lecturer, Loan Department ADAH PATTON, B.L.S., Lecturer, Cataloging MARGARET HUTCHINS, A.B., B.L.S., Lecturer

JOHN BOYNTON KAISER, A.B., B.L.S., Lecturer
OLA M WYETH, A.B., B.L.S., Lecturer
MARGARET LUCY KINGSBURY, A.B., Lecturer
JENNIE ADAH CRAIG, A.B., B.L.S., Lecturer
MARGARET HERDMAN, A.B., Lecturer
CHARLES EDWIN JANVRIN, Ph.B., B.L.S., Lecturer
WINIFRED FEHRENKAMP, B.L.S., Lecturer
ELEANOR G KARSTEN, Ph.B., Lecturer

- 2. Reference Work.—Methods of research; the use of reference books; practical work in the reference department of the University library. *I, II;* (3). Assistant Professor Simpson
- 3. Selection of Books.—Selection of books for libraries of different types; practice in writing book annotations for library catalogs and bulletins. *I, II;* (2). Miss Felsenthal
- 4. PRACTICE WORK.—Four hours a week of practical work in the various departments of the University library. To be taken with Library 2, 16, 17, 18, 19, 20, and 21. I, II; (2). Miss Curtis
- 6. Subject Bibliography.—Selection of books in special subjects; treatment of the literature and bibliography of each. Lectures given by professors in the respective departments of the University. *I*, *II*; (2).
- 7. HISTORY OF LIBRARIES.—The foundation, development, and resources of the leading libraries of Europe and the United States.

 II; (2).

 Assistant Professor Simpson
- 8. Advanced Reference.—Transactions of learned societies; special periodicals and government publications; indexes and other works of value to a large reference department. I; (2).

Assistant Professor SIMPSON

Prerequisite: Library 2.

- 9. BOOKMAKING.—History of the early forms of books; the invention and spread of printing; book illustration; book-binding. II; (2).

 Director Windsor
- IO. PRACTICE WORK.—Eight hours a week; a continuation of Library 4, supplemented by one month of work as a member of the staff of an assigned public library. *I*, *II*; (4). Miss Curtis
- 12. General Reference.—Classification and arrangement of books in the University library; the card catalogs; the more generally used reference books. (Intended for freshmen and sophomores in the University, rather than for students registered in Library School.) Repeated each semester. *I or II*; (2).

Assistant Professor Simpson, Miss Felsenthal, Miss Johnson

- 13. Public Documents.—13a.—Production and acquisition of Federal documents; their treatment and use as reference books. 13b.—American state and municipal documents; publications of foreign governments. (Second semester elective to students who have completed 13a.) I, II; (2).

 Mr. Reece
- 15. Seminar in Library Economy.—Special problems; library economy publications; independent work. I, II; (2).

Mr. REECE and others

- 16. Order, Accession, and Shelf Work.—Order department records and routine; book-buying; publishers and discounts; copyright; serials and continuations; gifts; exchanges; duplicates; the accession book and its substitutes; the shelf list and its uses; the care of pamphlets, clippings, and maps. I; (2). Miss Curtis
- 17. CLASSIFICATION.—Principles of book classification; the Dewey Decimal Classification; the Cutter Expansion Classification; book numbers. I; (3). Miss Bond
- 18. Cataloging.—Dictionary cataloging; assignment of subject headings; classed cataloging; sixty hours of cataloging for the University library. *I*; (3). Miss Bond
- 19. TRADE BIBLIOGRAPHY.—Books and periodicals used as tools of the book trade of America, England, Germany, France, Italy, Spain, Holland, and the Scandinavian countries. II; (1).

Mr. REECE

- 20. LOAN DEPARTMENT.—Records connected with the loan of books; representative loan systems; rules, regulations, and practices. II; (1).

 Miss JUTTON
- 21. Printing, Binding, and Indexing.—Printing: Printing for libraries; practice in preparing copy and in reading proof; visits to print shops. Binding: Materials and methods of book-binding; bindings suitable for library use; visits to binderies; practice in preparing books for the bindery and in making necessary records; practice in the repair of books. Indexing: Indexes; the form of citation; the choice and arrangements of headings; kind of type; practice in the indexing of books and magazines. II; (2).

Director Windsor, Miss Curtis, Mrs. Karsten

22. LIBRARY EXTENSION.—Method; library associations; library schools; library commissions; township and county library systems; traveling libraries; home libraries; other agencies. II; (3).

Mr. REECE

23. LIBRARY ADMINISTRATION AND CURRENT LIBRARY LITERATURE.— Current library periodicals, bulletins, reports, catalogs, and reading lists: the organization, reorganization, and administration of small libraries: the planning and equipment of reading rooms and small library buildings; library accounts and business forms. I, II; (1). Miss Curtis

24. SELECTION OF BOOKS.—English translations of representative works of French, German, Spanish, and Italian novelists of the 19th century; examination of about forty newly published books sent each month to the School for inspection. I, II; (2).

Assistant Librarian DRURY

25. ADVANCED CLASSIFICATION AND CATALOGING.—The principal systems of book classification; rules for cataloging books. II: (1). Miss Bond

Prerequisite: Library 17, 18.

26. LIBRARY ADMINISTRATION.—Advanced order work; library organization; library architecture; library work with children; lectures on special topics by visiting librarians, members of the faculty, and the library staff. I, II; (3).

Miss Curtis, Assistant Librarian Drury, Mrs. Scott, Mr. Reece, and others

27. BIBLIOGRAPHICAL INSTITUTIONS.—Organization and work of societies and institutions of America and Europe interested in the production of bibliographical material; coöperative undertakings; international bibliography, I: (1). Miss Patton

28. PRACTICE WORK .- (Students may elect special practice work in certain departments of the University library.) II; (1 to 4.)

Director WINDSOR

MATHEMATICS

EDGAR JEROME TOWNSEND, Ph.D., Professor SAMUEL WALKER SHATTUCK, C.E., LL.D., Professor, Emeritus GEORGE ABRAM MILLER, Ph.D., Professor HENRY LEWIS RIETZ, Ph.D., Associate Professor CHARLES HIRSCHEL SISAM, Ph.D., Assistant Professor JAMES BYRNIE SHAW, D.Sc., Assistant Professor ARNOLD EMCH, Ph.D., Assistant Professor ARTHUR ROBERT CRATHORNE, Ph.D., Associate ROBERT LACY BÖRGER, Ph.D., Associate ERNEST BARNES LYTLE, Ph.D., Associate ELLIS BAGLEY STOUFFER, Ph.D., Instructor

AUBREY JOHN KEMPNER, Ph.D., Instructor WILLIAM WELLS DENTON, Ph.D., Instructor EDWARD WILSON CHITTENDEN, Ph.D., Instructor ROY MARTIN WINGER, Ph.D., Instructor GEORGE ERNEST CARSCALLEN, A.M., Assistant WARD HASTINGS TAYLOR, A.B., Assistant SIDNEY ARCHIE ROWLAND, JR., A.B., Assistant ARTHUR KIERNAN, Ph.B., Assistant CLARENCE MARK HEBBERT, B.S., Assistant GEORGE RUTLEDGE, A.B., Research Assistant

The courses offered by the department are arranged to meet the needs of three classes of students: (1) those who wish to elect the subject as an element in a general education; (2) those who will have occasion to make use of mathematics in cognate subjects, and (3) those who wish to specialize in mathematics. Those who select mathematics as a major subject should take Mathematics 2, 4, and 6 in the freshman year; Mathematics 7, 9, and 18a in the sophomore year, and Mathematics 10, 16, 17a, and 19a in the junior year. In the senior year the selection may be made from the courses open to graduates and undergraduates as seems desirable. Students specializing in mathematics are advised to take work also in some line of applied mathematics.

The mathematical library, consisting of about 2,500 volumes, is adequate for advanced work and research. The leading mathematical journals are received currently. The department also has in its possession a collection of models and computing machines, which are valuable in instruction and research.

INTRODUCTORY COURSES FOR UNDERGRADUATES

2. College Algebra.—I; (3). (Three sections repeat the work in the second semester.)

Professor Miller, Associate Professor Rietz, Assistant Professor Sisam, Assistant Professor Shaw, Assistant Professor Emch, Dr. Crathorne, Dr. Börger, Dr. Lytle, Dr. Stouffer, Dr. Kempner, Dr. Denton, Dr. Chittenden, Dr. Winger, Mr. Carscallen, Mr. Taylor, Mr. Rowland, Mr. Kiernan, Mr. Hebbert

Prerequisite: Entrance algebra, 1½ units; plane geometry.

3a. Spherical Trigonometry.—II; (2). Dr. Crathorne
Prerequisite: Solid and spherical geometry.

4. PLANE TRIGONOMETRY.—I; (2). Three sections repeat the work in the second semester.)

Professor Miller, Associate Professor Rietz, Assistant Professor Sisam, Assistant Professor Shaw, Assistant Professor Emch, Dr. Crathorne, Dr. Börger, Dr. Lytle, Dr. Stouffer, Dr. Kempner, Dr. Denton, Dr. Chittenden, Dr. Winger, Mr. Carscallen, Mr. Taylor, Mr. Rowland, Mr. Kiernan, Mr. Hebbert

Prerequisite: Entrance algebra, 11/2 units; plane geometry.

5. Teachers' Course.—Secondary algebra and geometry; their educational values; position in course; methods of teaching; correlation; comparison of American methods with those of foreign countries; order of topics; most important topics; text-books; literature. Lectures; discussions; reports. II; (2). Dr. Lytle

Prerequisite: Junior standing.

6. Analytic Geometry.—Piane and solid analytic geometry. II; (5).

Professor Miller, Associate Professor Rietz, Assistant Professor Sisam, Assistant Professor Shaw, Assistant Professor Emch, Dr. Crathorne, Dr. Börger, Dr. Lytle, Dr. Stouffer, Dr. Kempner, Dr. Denton, Dr. Chittenden, Dr. Winger, Mr. Carscallen, Mr. Taylor, Mr. Rowland, Mr. Kiernan, Mr. Hebbert

Prerequisite: Mathematics 2, 4.

7, 9. DIFFERENTIAL AND INTEGRAL CALCULUS.—The principles of the differential and integral calculus developed and applied to functions of one and of several variables. (Section A is an honor section and may be selected by those specializing in mathematics or having an average grade of 90 in freshman mathematics.) I; (5); II; (3).

Associate Professor Rietz, Assistant Professor Sisam, Assistant Professor Shaw, Assistant Professor Emch, Dr. Crathorne, Dr. Börger, Dr. Lytle, Dr. Stouffer, Dr. Kempner, Dr. Denton, Dr. Chittenden, Dr. Winger, Mr. Carscallen Prerequisite: Mathematics 6.

9a. DIFFERENTIAL AND INTEGRAL CALCULUS.—(Second Course.) The definite (single and multiple) integral with exercises in the formulation of problems arising in applied mathematics; line, surface, and volume integrals; the theorems of Stokes and Green; partial differentiation; exact differentials with applications of the condi-

tions for exactness; elements of differential questions; approximate quadature and integration of differential equations. I or II: (2).

Assistant Professor Emch, Dr. Crathorne, Dr. Börger, Dr. STOUFFER

Prerequisite: Mathematics 7. o.

8a. DIFFERENTIAL AND INTEGRAL CALCULUS.—(For students in chemistry and chemical engineering.) I: (5).

Professor Miller, Dr. Denton

Prerequisite: Mathematics 6.

18a. Constructive Geometry.—Development and training of space perception; properties of lines, planes, and the simpler surfaces of the second order studied by various methods of parallel and central projection; graphical interpretation of the processes of analytic geometry; analytic discussion of the methods of descriptive geometry. II: (3).Assistant Professor EMCH

Prerequisite: Mathematics 6.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

10. THEORY OF EQUATIONS AND DETERMINANTS.—Some of the fundamental properties of an algebraic equation in one unknown; the solutions of systems of simultaneous equations; theory of a system of linear equations; some fundamental properties of determinants. II; (3). Professor MILLER

Prerequisite: Mathematics 6.

16. DIFFERENTIAL EQUATIONS.—General linear equations with constant coefficients; special forms of differential equations of higher order; integration in series. I; (3).

Dr. CRATHORNE, Dr. STOUFFER

Prerequisite: Mathematics 8a or 9.

17a. ADVANCED CALCULUS.—Fundamental notions and theorems of the calculus from a more advanced and critical point of view; elliptic integrals; functions defined by definite integrals. II; (3).

Dr. LYTLE

Prerequisite: Mathematics 7, 9.

19a. Solid Analytic Geometry.—Equations of the plane and the right line in space; the more general properties of surfaces of the second degree; the classification and special properties of quadrics; a brief introduction to the theory of surfaces in general. II; (3). Assistant Professor SISAM

Prerequisite: Mathematics 8a (or 7), 10.

20. CALCULUS OF VARIATIONS.—Those elements of the science

that are most needed in the study of the higher subjects of mathematical astronomy and physics. II; (3). Dr. Crathorne

Prerequisite: Mathematics 16.

[21a. Method of Least Squares.—Law of probability and error; adjustment of observation; precision of observation; independent and conditional observations. *I*; (2). Not given in 1912-13; given in 1913-14.

Assistant Professor Sterbins

Prerequisite: Mathematics 8a or 7.]

22a. Partial Differential Equations.—Integration and determination of the integration constants of such partial differential equations as arise in the study of such subjects as the flow of heat, the vibration of strings, plates, and electricity. II; (2).

Dr. CRATHORNE

Prerequisite: Mathematics 16.

23a. Averages and the Mathematics of Investment.—Meaning, use, and abuse of different kinds of averages; relation of the theory of probability to averages; application of the elements of probability to annuities, insurance, and various branches of science; loans and investments; practical problems in the evaluation of investment securities. II; (3).

Associate Professor Rietz

Prerequisite: Mathematics 2; junior standing.

24a. Functions of a Complex Variable.—I, II; (3).

Professor Townsend

Prerequisite: Mathematics 7, 9, 16.

[27. Projective Geometry.—Fundamental concepts; anharmonic ratio; projective pencils and ranges; projective transformations and groups; theory of conics and quadric surfaces; pencils and ranges of conics; quadratic transformations and projective theory of cubics; applications in mechanics. *I, II;* (3) Not given in 1912-13; given in 1913-14.

Assistant Professor Emch

Prerequisite: Senior standing in mathematics.]

31. Actuarial Theory.—Application of probability to life contingencies; mortality tables; fire insurance; premiums for various types of insurance. *I*; (3). Associate Professor Rietz

Prerequisite: Mathematics 8a, 23a.

32. HISTORY OF MATHEMATICS.—Historical development of the elementary subjects; rise and growth of the higher mathematics chiefly in the nineteenth century; biography of the persons most influential in this development. Lectures; reports on assigned reading. II; (2).

Dr. LYTLE

33. Modern Algebra.—Theory of matrices; system of linear equations; bilinear and quadratic forms; properties of polynominals; algebraic invariants; elementary divisors. *I, II;* (3).

Dr. Börger

Prerequisite: Mathematics 9, 10.

COURSES FOR GRADUATES

100. SEMINAR AND THESIS—Three times a week; I, II.

Professor Townsend, Professor Miller, Associate Professor Rietz, Assistant Professor Sisam, Assistant Professor Shaw, Assistant Professor Emch

[101. Functions of Real Variables.—The theory of functions of real variables; the theory of assemblages. Three times a week; I, II. Not given in 1912-1913; given in 1913-1914. Dr. Crathorne Prerequisite: Mathematics 16.1

102. FOURIER SERIES .- Three times a week; I, II.

Assistant Professor Shaw

Prerequisite: Mathematics 16 or 17a.

103. THEORY OF THE POTENTIAL.—Newtonian, logarithmic, and other potential functions; spherical harmonics; Green's theorem and functions; existence and boundary theorems; functions defined by other related partial differential equations of physics; applications to Electrodynamics. (For students of pure mathematics and of the physical sciences.) Three times a week; I, II.

Assistant Professor Shaw

Prerequisite: Mathematics 16 or 17a.

110. ELLIPTIC FUNCTIONS.—Elliptic functions applied to geometry and mechanics; the elliptic modular functions. Three times a week; I, II.

Assistant Professor Emch

Prerequisite: Mathematics 24a.

III. AUTOMORPHIC FUNCTIONS.—First semester: The group-theoretic side of the theory. Second semester: Function-theoretic developments and applications. Three times a week; I, II.

Prerequisite: Mathematics 24a and preferably 27 and 110.

112. ABELIAN FUNCTIONS.—Algebraic functions of a complex variable and their integrals; Rieman's surfaces; birational transformations; Abel's theorem with geometric applications; the inversion problem and the theta functions. Three times a week; I, II.

Prerequisite: Mathematics 24a, 110.

113. Theory of Linear Differential Equations.—Three times a week; I, II. Dr. Crathorne

Prerequisite: Mathematics 24a.

120. ELEMENTARY THEORY OF GROUPS.—Groups in arithmetic, geometry, and trigonometry; those which can be represented with a small number of letters; the abstract group theory; the Galois theory of equations. Three times a week; I, II. Professor MILLER

121. Theory of Groups.—Three times a week; I, II.

Professor Miller

Prerequisite: Mathematics 120.

[124. Theory of Numbers.—Congruences; Kronecker's modular systems; quadratic residues; quadratic forms; algebraic numbers. Three times a week; I, II. Not given in 1912-13; given in 1913-14.

Professor Mullerl

129. Theory of Statistics.—General methods of statistical investigation; application of the theory of probability to statistical data; fitting curves to observation; interpolation; theory of errors; mathematical theory of variability and correlation; application of principles developed to problems in economics, sociology, and biology. Three times a week; I, II.

Associate Professor Rietz

Prerequisite: Mathematics 8a.

II30. Invariants and Higher Plane Curves.—General theory of algebraic curves; application of the theory of invariants to higher plane curves; curves of the third and fourth order. Three times a week; I, II. Not given in 1912-13; given in 1913-14: Dr. Börger

Prerequisite: Mathematics 16, 27.]

[131. Algebraic Surfaces.—Application of homogeneous coordinates and the theory of invariants to geometry of three dimensions; general theory of surfaces; special properties of surfaces of the third and fourth order. Three times a week; I, II. Not given in 1912-13.

Assistant Professor Sisam

Prerequisite: Mathematics 19a, 130.]

135. METRIC DIFFERENTIAL GEOMETRY.—Applications of the calculus to the general theory of curves and surfaces based primarily on the use of Cartesian co-ordinates; relation of the theory of surfaces to the theory of invariants of a pair of quadratic differential forms. Three times a week; I, II. Assistant Professor SISAM

Prerequisite: Mathematics 16.

[140. THE FUNDAMENTAL CONCEPTS OF MATHEMATICS.—The general concepts of higher mathematics in their bearing on elementary

mathematics. Three times a week; I. Not given in 1912-13; given in 1913-14. Dr. LYTLE

Prerequisite: Senior standing in mathematics.]

[141. Vector Methods.—Three times a week; I, II. Not given in 1912-13; given in 1913-14. Assistant Professor Shaw Prerequisite: Mathematics 16 or 17a.]

MECHANICAL ENGINEERING

CHARLES RUSS RICHARDS, M.M.E., Professor

GEORGE ALFRED GOODENOUGH, M.E., Professor, Thermodynamics

BRUCE WILLET BENEDICT, B.S., Director, Shop Laboratories

OSCAR ADOLPH LEUTWILER, M.E., Assistant Professor, Machine

Design

IOHN ADLUM DENT. M.E., Instructor *ARCHIE STANTON BUYERS, B.S., Instructor Brainerd Mitchell, Jr., M.E., Instructor, Machine Design HARRY FREDERICK GODEKE, B.S., Instructor HERBERT SETON EAMES, B.S., Instructor DAVID LEONARD SCROGGIN, Instructor, Machine Shop FREDERICK ELLIS, Instructor, Wood Shop EDGAR THOMAS LANHAM. Instructor. Forge Shop ROBERT EDWIN KENNEDY, Instructor, Foundry JOHN NICHOLAS VEDDER. A.M., Assistant ALONZO PLUMSTED KRATZ, M.S., Assistant EDWIN BRENTON FLANIGAN, C.E., Assistant JAMES MERION DUNCAN, Assistant, Wood Shop GUSTAV H RADEBAUGH, Assistant, Machine Shop PETER JOSEPH REBMAN, Assistant, Forge Shop JOSEPH CULPEPPER PENDLETON. Assistant. Foundry JOHN ALEXANDER FRISK. Assistant and Mechanician

3. Power Measurement.—The apparatus used in engine and boiler tests—scales, thermometers, indicators, brakes and dynamometers, gauges, calorimeters; methods of calibrating and using such apparatus; tests for horse-power of steam engines, pumps, and gas engines. Reports. *I*; (2).

Mr. Godeke, Mr. Eames, Mr. Kratz, Mr. Flanigan Prerequisite: Mechanical Engineering 16, Mathematics 9.

4. ELEMENTS OF MACHINE DESIGN.—Design of machine ele-

^{*}Resigned, Dec. 31, 1912.

ments: Bolts, keys, journals, bearings, couplings; forms of gear teeth; spur and bevel gears. *I*; (2). Mr. MITCHELL *Prerequisite:* General Engineering Drawing I, 2.

5. Mechanism (Kinematics of Machinery).—Typical mechanisms and mechanical movements; kinematic principles involved in laying out such mechanisms; the methods of Reuleaux; parallel motions; quick return motions; valve gears; epicyclic trains. I; (3).

Mr. DENT. Mr. BUYERS

Prerequisite: Physics 1, 3; Theoretical and Applied Mechanics 7.

6. Heat Engines.—The steam engine; steam turbine; gas engine; air compressor; refrigerating machine. Mixtures of gases; combustion of gaseous fuels. (A continuation of course 7.) I, II;

(2). Professor Richards, Professor Goodenough

Prerequisite: Mechanical Engineering 7.

7. THERMODYNAMICS.—The transformation of heat into work; the second law and its connection with irreversible processes; the properties of heat media, the perfect gases, saturated and superheated vapors; the flow of fluids. II; (3).

Professor Goodenough, Mr. Dent

Prerequisite: Mathematics 9a; Theoretical and Applied Mechanics 8.

8. MECHANICS OF MACHINERY.—Friction in machine parts; useful application of friction as in friction clutches and brakes; transmission of power by ropes and belting; brakes, clutches, and dynamometers; hoisting machinery; hoisting in mines; elevators and cranes; hydraulic machinery; accumulators, and centrifugal pumps; fans, blowers, air compressors, air motors and transmission of power by means of air. I; (3). Assistant Professor Leutwiler

Prerequisite: Theoretical and Applied Mechanics 9, 11; Me-

chanical Engineering 5, 7.

9. Machine Design.—Theory of machine design, with applications; investigation of actual machine similar to the one to be designed; design of machinery subjected to heavy and variable stresses: Punches, shears, presses, riveters, and cranes. *I*, *II*; (3).

Assistant Professor Leutwiler, Mr. Buyers

Prerequisite: Theoretical and Applied Mechanics 8, 9; Mechanical Engineering 4, 5.

II. Steam Engines and Boilers.—The construction, operation, and care of boilers and engines; elementary thermodynamics; the

indicator and indicator diagrams; steam engine performance. (For students in civil, architectural, and municipal engineering.) II; (3).

Mr. Dent, Mr. Mitchell

Prerequisite: Physics 1.

12. MECHANICAL ENGINEERING LABORATORY.—Experiments on engines, turbines, gas engines, pumps, boilers, injectors, air compressors, hoisting appliances, heating apparatus, and the refrigerating machines. Tests of power plants in the vicinity. I_{τ} (3).

Mr. Godeke, Mr. Kratz, Mr. Eames, Mr. Flanigan

Prerequisite: Mechanical Engineering 3, 7.

- 13. MECHANICAL ENGINEERING LABORATORY.—The testing and calibration of instruments and apparatus; use of the indicator; calculation of horse-power and steam consumption; reading of indicator diagrams; valve setting. (For students in electrical engineering.) II; (3). Mr. GODEKE, Mr. KRATZ, Mr. EAMES, Mr. FLANIGAN
- 14. Design of Power Plants.—Design, with estimates and specifications, of some form of power plant. II; (3).

Assistant Professor Leutwiler, Mr. Kratz

Prerequisite: Mechanical Engineering 12.

15. Thermodynamics and Heat Engines.—A synopsis of courses 6 and 7, for students in electrical engineering. *I*, *II*; (3).

Professor Goodenough, Mr. Dent, Mr. Eames

Prerequisite: Mechanical Engineering 11 or 16 or 23.

- 16. Steam Engineering.—Engines, boilers, pumps, condensers, and other steam machinery. II; (3). Mr. Godeke, Mr. Eames Prerequisite: Physics 1, 3.
- 19. Seminar.—Papers on subjects relating to current engineering practice; the indexing of current engineering literature. Each student subscribes for a technical journal. Open to seniors only. I, II; (1).

 Professor Richards
- 23. Steam Engineering.—A synopsis of courses 11 and 16, for students in electrical engineering. I; (2).

Professor Goodenough, Mr. Dent, Mr. Eames

24. Machine Design and Mechanism.—The design of simple machine elements: keys, couplings, gears; the principles of mechanism. (For students in electrical engineering.) $I_{\mathcal{F}}$ (3).

Mr. BUYERS, Mr. MITCHELL

Prerequisite: General Engineering Drawing 1, 2.

27. Advanced Laboratory Practice.—Special research work in

the mechanical engineering laboratory. Open to seniors only. Time and credits will be arranged by consultation. Mr. Kratz

Prerequisite: Mechanical Engineering 12.

29. Seminar for Juniors.—Technical publications; the presentation of abstracts of important articles on engineering topics. Methods of classification; filing systems for clippings, catalogs, and drawings. II; (1).

Professor Richards

Prerequisite: Rhetoric 1.

31. TRANSMISSION OF POWER.—The transmission of power by shafting, belts, ropes, cables, water, compressed air, steam, and gas. I; (2).

Professor RICHARDS

Prerequisite: Mechanical Engineering 7, 8.

32. MECHANICAL ENGINEERING LABORATORY.—Heating and ventilation. Calibration of instruments, tests of various heating systems, experiments on fans and blowers. *I*; (1).

Mr. Godeke, Mr. Kratz, Mr. Flanigan

33. Thesis.—Investigation of special subject and preparation of thesis embodying a review of the literature of the subject, the results of investigation, and a discussion of those results. Weekly reports during the second semester. (Required of seniors.) II; (3).

Professor Richards, Professor Goodenough, Director Benedict,

Assistant Professor Leutwiler

35. MINE MACHINERY.—Air compressors, pumps, gas engines, and other machinery used in mining. (For students in mining engineering.) I_j (2). Mr. Dent

41. SHOP PRACTICE.

Pattern Work (18 weeks).—Exercises in elementary wood work; wood turning; pattern making. Blue prints and practice in reading drawings.

Forge Work (9 weeks).—Methods of handling iron and steel in the forge fire; forging, welding, and the working of iron and steel under the power hammer; heat treatment of steel, including the handling of the modern high speed steels.

Foundry Work (9 weeks).—Molding and core work; melting and casting iron and brass; molding machines and other labor-saving devices; the mixing of iron; the operation of the cupola; the mixing and melting of brass and other soft metals. I, II; (3).

Director Benedict, Mr. Ellis, Mr. Lanham, Mr. Kennedy, Mr. Duncan, Mr. Rebman, Mr. Pendleton

42. Machine Shop Practice.—Elementary exercises in chipping, filing; practice on the drill, lathe, planer, and other standard machine tools; methods of manufacture; cost-keeping systems; visits of inspection. *I*; (3), *II*; (2).

Director Benedict, Mr. Scroggin, Mr. Radebaugh Shop Practice.—The construction of commercial

46. Advanced Shop Practice.—The construction of commercial machinery, of apparatus or machines originally designed by the student, or a study of modern shop processes, especially those relating to the production of interchangeable parts by means of jigs and templates. Elective for juniors or seniors. I or II. Time and credits will be arranged.

Director Benedict, Mr. Scroggin

Prerequisite: Mechanical Engineering 41, 42.

47. Shop Practice for Special Students.—Open only to special students. No credit.

Mr. Scroggin

48. Forge Shop Practice.—Forging for the practical farmer. For students in agriculture. Six hours a week, either half of I or II; (2).

Mr. Lanham, Mr. Rebman

49. Wood Shop Practice.—For students in agriculture. Nine hours a week, to be arranged. I or II; (3). Mr. Ellis, Mr. Duncan

COURSES FOR GRADUATES

Entrance upon graduate work in mechanical engineering presupposes the full undergraduate course in that subject.

106. Heat Motors.—The advanced theory of the internal combustion motor, and of the steam turbine. The general principles and methods of refrigeration. Twice a week; II.

Professor Goodenough

107. THERMODYNAMICS.—The general principles of thermodynamics and their application to the solution of physical and engineering problems. Twice a week; I. Professor Goodenough

Prerequisites Mechanical Engineering 7 or an equivalent

109. Machine Design.—The general principles of rational design; the application of mechanics of materials. Individual problems. Twice a week; I or II. Assistant Professor Leutwiler

112. LABORATORY INVESTIGATION.—Special investigations of problems relating to combustion of fuel; boiler economy; steam engines and turbines; gas engines and producers; properties of explosive mixtures; mechanical refrigeration. Original work. Three times a week; I or II.

Professor Richards and assistants

114. DYNAMICS OF MACHINERY.—Advanced problems. Balancing; whirling and vibration of shafts; theory of governors; fly wheels;

force and mass reduction; stresses in rotating masses. Twice a week; I, II. Professor Goodenough

MECHANICS, THEORETICAL AND APPLIED

ARTHUR NEWELL TALBOT, C.E., Professor, Municipal and Sanitary Engineering; in charge of Theoretical and Applied Mechanics
Herbert Fisher Moore, M.M.E., Assistant Professor
Melvin Lorenius Enger, C.E., Assistant Professor
Virgil R Fleming, B.S., Associate
Clarence Eugene Noerenberg, A.B., A.E., Instructor
Fred B Seely, B.S., Instructor
George Paul Boomsliter, B.S., Instructor
Harrison Frederick Gonnerman, B.S., Instructor
Newton Edward Ensign, A.B., B.S., Instructor
Stanley Prince Farwell, M.S., Instructor
Floyd Hays Millard, M.S., Instructor

6. Engineering Materials.—The properties and requirements for materials used in engineering construction, the effect of methods of manufacture upon the quality of the material, and the specifications and standard tests used to secure acceptable grades of material. Lectures and assigned reading. I_{ij} (1).

PROFESSOR TALBOT, Assistant Professor Moore
Prerequisite: Registration in Theortical and Applied Mechanics 9.

7, 8. ANALYTICAL MECHANICS.—The mechanics of engineering rather than that of astronomy and physics: Fundamental concepts; equilibrium and motion; engineering problems; statement of conditions and use of data. (The work begins in the second semester; in the first semester of the following year it is given concurrently with Theoretical and Applied Mechanics 9.) Maurer's Technical Mechanics. II; (3); I; (2½).

Assistant Professor Enger, Mr. Noerenberg, Mr. Boomsliter, Mr. Seely, Mr. Ensign, Mr. Farwell, Mr. Millard

Prerequisite: For 7, Mathematics 7, registration in Mathematics 9; for 8, Mathematics 9; Theoretical and Applied Mechanics 7.

9. RESISTANCE OF MATERIALS.—The mechanics of materials; experiments and investigations in the materials laboratory; problems in ordinary engineering practice; the quality and requirements for structural materials. Merriman's Mechanics of Materials. Laboratory weekly. I; (3½).

Assistant Professor Enger, Mr. Fleming, Mr. Noerenberg, Mr. Boomsliter, Mr. Seely, Mr. Ensign, Mr. Gonnerman, Mr. Farwell, Mr. Millard

Prerequisite: Mathematics 9; Theoretical and Applied Mechanics 7; registration in Theoretical and Applied Mechanics 8.

10. HYDRAULICS.—The pressure and the flow of water and its utilization as motive power; observation and measurement of pressure, velocity, and flow; power and efficiency; determination of experimental coefficients. Hoskins' Hydraulics. Laboratory weekly; II; (3).

Assistant Professor Enger, Mr. Fleming, Mr. Seely, Mr. Gonnerman, Mr. Farwell

Prerequisite: Mathematics 9; Theoretical and Applied Mechanics 8.

11. ANALYTICAL MECHANICS.—Advanced kinetics; problems and applications. (An extension of Theoretical and Applied Mechanics 7 and 8, for mechanical engineers.) II; (3). Mr. Seely

Prerequisite: Mathematics 9; Theoretical and Applied Mechanics 8.

14. ELEMENTS OF MECHANICS.—Kinematics, kinetics, and statics. (For architects and others who have not taken the calculus.) Morley's Mechanics for Engineers. II; (4).

Mr. Noerenberg, Mr. Boomsliter, Mr. Millard

Prerequisite: Mathematics 2, 4.

15, 16. Strength of Materials.—Graphical methods of determining the elastic curve of beams; centroids and moments of inertia of areas; reinforced concrete beams and columns; properties and tests of engineering materials. (For students in architecture and others without the prerequisites required for Theoretical and Applied Mechanics 9.) Murdock's Strength of Materials. Laboratory every other week I, II; (3).

Mr. Noerenberg, Mr. Boomsliter, Mr. Millard, Mr. Fleming Prerequisite: Theoretical and Applied Mechanics 14.

COURSES FOR GRADUATES

Entrance upon graduate work in theoretical and applied mechanics presupposes a full undergraduate course in that subject.

IOI. ANALYTICAL MECHANICS.—Methods of treatment and attack; the more complex problems and applications; critical and comparative study of texts. Twice a week; I.

Assistant Professor Moore

102. RESISTANCE OF MATERIALS.—Properties of materials used in engineering construction and the methods of determining these properties; analysis and investigation in mechanics of materials; the effect of form of member in a structure or machine; the method of application of forces; comparative study of texts. Twice a week; II.

Assistant Professor Moore

103. HYDRAULICS AND HYDRAULIC ENGINEERING.—The laws of hydraulics and their application to engineering problems; hydraulic power and its development; design and investigation. Twice a week; II.

Professor Talbot

IO4. EXPERIMENTAL WORK IN THE LABORATORY OF APPLIED MECHANICS.—Investigation in the materials testing laboratory on materials and on their action as used in machines and structures; experiments in the hydraulic laboratory with pumps, motors, and measuring devices, and the investigation of the laws of hydraulics, the development of power, and the study of various hydraulic problems. I, II.

Professor Talbot, Assistant Professor Moore

IOS. Experimental and Analytical Work in Reinforced Concrete.—Research: interpretation of available experimental results and their application to the design of structures; principles of construction; typical reinforced concrete structures. Twice a week. I, II.

Professor Talbot

METEOROLOGY (See under Geology.)

MILITARY SCIENCE

BENJAMIN CLARKE Morse, Major of Infantry, U. S. Army, Professor and Commandant

EUGENE HENDRICKS LESLIE, Assistant

HOWARD CHRISTOPHER HOHMAN, Assistant

HARWELL CLOUD THOMPSON, Assistant

CHARLES RUSH HORRELL, Assistant

LEWIS BROWN ERMELING, Assistant

*I. THEORETICAL INSTRUCTION.—Infantry Drill Regulations. For all male students. II; (1).

Mr. Leslie, Mr. Hohman, Mr. Thompson, Mr. Horrell, Mr. Ermeling

^{*} Freshmen and sophomores are required to drill one and one-half hours each week until March 15; after that date, three hours each week. Freshmen attend recitations one hour a week in the second semester. Assignments to classes and companies are made by the Commandant of Cadets according to circumstances.

- *2. Practical Instruction.—Infantry.—School of the soldier; company and battalion; regimental ceremonies. Artillery.—School of the cannoneer and battery dismounted. Freshman and sophomore years. I, II; (1).

 Professor Morse
- 3. Theoretical Instruction.—For sophomores: Drill Regulations and military administration. For juniors: Field Service Regulations. For seniors: Field Engineering. This course is obligatory upon commissioned officers and sergeants, recommended to corporals, and open to others. *I, II.* Professor Morse

AUTHORIZED .Text-Books—United States Drill Regulations; United States Army Regulations; Field Service Regulations, United States Army; Guard Manual; Small Arms Firing Regulations.

MINERALOGY

(See Geology 5, 5a, 6, 7, 7a.)

MINING ENGINEERING

HARRY HARKNESS STOEK, B.S., E.M., Professor FRANCIS CHURCH LINCOLN, E.M., Ph.D., Assistant Professor HERBERT HOUGHTON LAUER, E.M., Instructor STEPHEN OSGOOD ANDROS, A.B., B.S., E.M., Field Assistant

- 1. Elementary Mining Principles.—The general processes of mining engineering; terminology. Lectures; trips of inspection. *I*; (1). Professor Stoek
- 2. EARTH AND ROCK EXCAVATION.—Explosives; blasting; drilling; boring; tunneling; shaft sinking; coal cutting. II; (3).

Professor Stoek, Assistant Professor Lincoln

Prerequisite: Chemistry 1a or 1b.

- 3. MINING METHODS.—Mining and timbering of bedded, vein, and placer deposits. *I*; (2). Professor Stock
 - Prerequisite: Mining Engineering 2.

4. MINE SURVEYING.—The application of general surveying methods to mine work; the description and use of instruments employed underground and in connecting surface and underground surveys; the platting and use of mine maps; mineral land survey-

^{*}See note, page 379.

ing; the theory and use of solar attachments; determination of the meridian; theory and use of stadia; application of topographic and railroad surveying to mining conditions; estimation and prospecting of mineral deposits. II; (4).

Mr. Lauer

Prerequisite: Civil Engineering 21.

5. MINE VENTILATION.—Mine gases; safety lamps; explosions in mines; rescue work; first aid; mine ventilation; mine lighting. II; (3).

Mr. LAUER

Prerequisite: Chemistry 1a or 1b.

6. MECHANICAL ENGINEERING OF MINES.—Hoisting: ropes, cages, hoisting engines, and other appliances. Haulage: the different systems used underground and on the surface; the methods of loading and unloading; mine stables; transportation of workmen. Signaling. Drainage of mines: mine dams, mine pumps. Tipple arrangements; rock houses; ore bins. General surface plant. Design and drafting of mining plant. I; (3).

Prerequisite: Mechanical Engineering 16, or 11, or 23.

- 7. MINE ADMINISTRATION, ORGANIZATION, AND MINING LAW.—
 Mining companies. Trade agreements—relations between employers and employees. Transportation and marketing. The general
 mining laws of the several states, with particular attention to those
 of Illinois. II; (2).

 Professor Stoek
- 8. Mine Plant.—Location; design; estimates for construction. II; (2). Mr. Lauer
- 9. Preparation of Coal and Ores.—The handling and utilization of coal: crushing, screening, washing, coking, briqueting, sampling, weathering. Ore dressing; milling. I_j (2)

Assistant Professor Lincoln

- 10. MINING LABORATORY.—Experiments with safety lamps, anemometers, water gages, mine fans, coal washing, and ore dressing machinery; II; (3). Professor Stoek, Assistant Professor Lincoln Prerequisite: Mining Engineering 5.
- II. THESIS.—Individual investigation of a special mining subject; preparation of thesis giving review of the literature on the subject, the results of experimental work, and a general discussion of the subject. II; (3).
- 12. Mine Design.—General theory of framed structures; design of mine structures of wood, steel, and masonry. I; (3).

Mr. LAUER

COURSES FOR GRADUATES

Entrance upon graduate work in mining engineering presupposes a full undergraduate course in that subject.

IOI. Advanced Coal Mining.—The coal fields of the United States; methods of mining; the economics of coal mining: utilization, marketing, storage, and transportation of coal. Twice a week; I, II; Professor Stork

102. Advanced Preparation of Coal and Ores.—Twice a week; I, II.

Assistant Professor Lincoln

MODERN LANGUAGES

(See English Language and Literature, Germanic Languages and Literature, and Romance Languages and Literature.)

MUNICIPAL AND SANITARY ENGINEERING

ARTHUR NEWELL TALBOT, C.E., Professor

MELVIN LORENIUS ENGER, B.S., C.E., Assistant Professor, Theoretical and Applied Mechanics

GEORGE CONRAD HABERMEYER, B.S., Associate

VIRGIL R FLEMING, B.S., Associate, Theoretical and Applied Mechanics

Paul Hansen, B.S., Associate

2. WATER SUPPLY ENGINEERING.—Source of supply; hydraulics of wells; stream flow; impounding and storage reservoirs; conduits and pipe lines; pumps and pumping machinery; stand-pipes and elevated tanks; the distribution system; tests and standards of purity of potable water. Designing weekly. Turneaure and Russell's Public Water Supplies. 1; (4).

Assistant Professor Enger, Mr. Habermeyer, Mr. Fleming Prerequisite: Theoretical and Applied Mechanics 9, 10; Chemistry 1; Mechanical Engineering 11.

3. Sewerage.—The design and methods of construction of sewerage systems: Sanitary necessity of sewerage; water carriage systems, both separate and combined; surveys and general plans; hydraulics of sewers; house sewage and its removal; relation of rainfall to storm water flow; determination of size and capacity of sewers; forms and strength of sewer appurtenances; modern meth-

ods of sewage disposal; estimates and specifications. Designing weekly. Folwell's Sewerage; II; (3).

Assistant Professor Enger, Mr. Habermeyer, Mr. Fleming Prerequisite: Theoretical and Applied Mechanics 9, 10; Chem-

istry 1; Municipal and Sanitary Engineering 2.

5a. Bacteriology.—The identification and classification of bacteria, and of allied organisms; their relations to health and to disease; methods of separation and cultivation; methods of air and water analysis. (For students in municipal and sanitary engineering.) I; last 7 weeks; (2). Assistant Professor RAHN

Prerequisite: Civil Engineering 4a.

6a, b. Water Purification, Sewage Disposal, and General Sanitation.—Impurities in water supplies and methods and processes of their removal; the modern methods of sewage disposal by filtration, chemical precipitation, irrigation; representative purification plants; garbage collection and disposal; sanitary restrictions and regulations and general sanitation. Lectures; seminar work; drafting. *I*; (3); *II*; (2). Professor Talbot, Mr. Habermeyer

Prerequisite: Municipal and Sanitary Engineering 2, 3, 5a;

Chemistry 1, 3, 10b.

7. Water Supply Engineering.—Similar to Municipal and Sanitary Engineering 2, for students in sanitary science. Designing weekly. Turneaure and Russell's Public Water Supplies. I; (4).

Mr. Habermeyer

Prerequisite: Theoretical and Applied Mechanics 5, 12, 10; Chemistry 3.

8. Sewerage.—Similar to Municipal and Sanitary Engineering 3, for students in sanitary science. Designing weekly. Folwell's Sewerage. II; (3).

Mr. HABERMEYER

9. Hydraulic Design and Construction.—The design and methods of construction of reservoirs, dams, conduits, and waterways: hydraulic engineering problems. II; (2).

Assistant Professor ENGER

30. Thesis.—Investigation or design of an engineering problem. Required of seniors. II; (2). Professor Talbot, Mr. Habermeyer

COURSES FOR GRADUATES

Entrance upon graduate work in municipal and sanitary engineering presupposes a full undergraduate course in that subject.

102. WATER SUPPLY Engineering.—Sources and requirements of water supply; general water-works construction; pumps and

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pumping; design of reservoirs and elevated tanks; water-works operation and the valuation of plants. One to three times a week; I or II.

Professor TALBOT

103. Sewerage.—General sewerage design and construction; sewerage systems; hydraulics of sewers; and a study of run-off.

Once or twice a week; II.

Professor Talbor

IOO. WATER PURIFICATION, SEWAGE DISPOSAL AND GENERAL SANITATION.—The design, construction, and operation of water purification plants and of sewage disposal works; the study of existing plants; comparison of results and cost of construction and operation; experimental work on water filters and septic tanks; garbage disposal; general sanitation. Once a week; II.

Professor Talbot

MUSIC

CHARLES HENRY MILLS, D.Mus., F.R.C.O., Director, Professor
GEORGE FOSS SCHWARTZ, A.M., M.B., Assistant Professor
CONSTANCE BARLOW-SMITH, Instructor, Sight-Singing, Ear Training,
Public School Music

HENRI JACOBUS VAN DEN BERG, Instructor, Piano

Albert Austin Harding, Instructor, Band Instruments, Director of the Band

LOIS DERWENTWATER MCCOBB, Instructor, Voice
FLORENCE MARY KIRKUP, Instructor, Voice
McElroy Johnston, Instructor, Voice
Edna Almeda Treat, Mus.B., Instructor, Piano
Edson Wilfred Morphy, Instructor, Violin
Lowell Leslie Townsend, A.M., Instructor, Piano

- I. HISTORY OF MUSIC.—The development of music; the rise of polyphony and dramatic music; the origin and progress of the oratorio; the evolution of instruments and instrumental forms; the lives of composers. Lectures; assigned collateral readings. *I, II;*(2).

 Assistant Professor Schwartz
 - ia. Acoustics.—I, or II; (2). Professor Mills
 - 2. HARMONY.—I, II; (2). Assistant Professor Schwartz
 - 3. Advanced Harmony.—I, II; (3).

Assistant Professor Schwartz

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4. Counterpoint, Canon, and Fugue.—I, II; (3).

Professor Mills

¹5. GENERAL THEORY, FREE COMPOSITION.—I, II; (2½).

Professor Mills

Piano2

Professor Mills, Mr. Van den Berg, Miss Treat. Mr. Townsend

- 6a, 6b, 6c. Preparatory Course: Three Years.—Special attention is given to the formation of a correct touch and technique, and to intelligence in interpretation. In the examination at the conclusion of the course students are required to play: Simple scales and arpeggios at fairly rapid tempo; scales in double octaves at a moderate speed; Bach, two-part invention; Czerny, Op. 229; an easy sonata of Haydn, Mozart, or Beethoven. I, II; no collegiate credit.
- 7. First Year.—Development of technique; Czerny, Op. 229. Bks. 3, 4; Bach, Two-part Inventions; sonatas of Haydn and Mozart; easier sonatas of Beethoven; Mendelssohn, Songs Without Words; compositions (smaller works) of Schubert, Raff, Grieg, Chaminade, Moszkowski, and others. I, II; (6).
- 7a. One Year.—The first year's work in piano taken as a minor subject by collegiate students majoring in voice or violin. I, II; (2).
- 8. Second Year.—Czerny, Op. 740; Pacher, Octave Studies; Bach, Three-part Inventions. selections from French Suites; sonatas and other compositions of Scarlatti, Beethoven, Schubert, Schumann, Mendelssohn, Weber, Raff, Rubinstein, Saint Saens, Godard, MacDowell, and others. I, II; (6).
- 9. Third Year.—Selections: Clementi, Gradus ad Parnassum; Moscheles, Op. 70; Kullak, Seven Octave Studies, Bk. 2; Bach, Well-Tempered Clavichord; sonatas and concertos by Mendelssohn, Weber, Beethoven, Hummel; selections from works of Bach, Chopin, Schubert, Schumann, Brassin, Rubinstein, Liszt, Moszkowski, Scharwenka, and other modern composers. I, II; (7).
- 10. Fourth Year.—Selections: Octave Studies; Clementi, Gradus, continued; Bach, Well-Tempered Clavichord, continued; Chopin, Henselt, Etudes, etc.; sonatas by Beethoven and selections from works of modern composers of most advanced grade. I, II; (8).

¹ Music 5, I, may be taken with Course 4, II, if desired.

² Since it is undesirable and impossible to establish a set course for all students, the course outline given above must be taken only as indicating the general scope of the work required of each student.

Voice*

Mr. JOHNSTON, Miss McCobb, Miss KIRKUP

11a, 11b, 11c. Preparatory Course: Three years. The fundamental principles of voice culture, viz., correct breathing and the proper placing of the voice. In the examination at the conclusion of the course students are required to sing: Simple scales and arpeggios; studies selected from Concone, Sieber, Panofka, and Panseron; songs selected from Schubert, Schumann, and Mendelssohn. I. II; no collegiate credit.

12. First Year.—Tone Production. Panofka: Op. 85. Concone: Op. 10, 17; Spicker: Masterpieces of Vocalization, Book I or substitute. Selected songs from Schubert, Franz, Greig, and modern composers. I, II; (6).

12a. One Year.—The first year's work in voice taken as a minor subject by collegiate students majoring in piano or violin. I, II; (2).

13. Second Year.—Tone Production. Vaccai: Practical Method; Panofka: Op. 81. Spicker: Book II; Panseron: Bordogni; Songs from German, French, Italian, and modern composers.

14. Third Year.—Tone Production. Spicker: Book III; Lamperti; Lablache; simple arias from opera and oratorios; selected songs. I, II; (7).

15. Fourth Year.—Tone Production. Spicker: Book IV. Ravini; Rubini; selected songs, opera, and oratorios. I, II; (3).

Note.—The above list will be supplemented by excerpts from modern composers—especially the modern American school—during the entire course.

VIOLIN*

Mr. Morphy

16a, 16b, 16c. Preparatory course: Three years. In the examination at the conclusion of the course the students are required to play: Gordon's Fountain Studies; Hermann's Scale Studies; Wohlfahrt's Etudes, Book I; Kayser's Etudes; Pleyel, Duet; selections from Weiss and Blumensteugel; miscellaneous pieces by Dancla, Papini, Weidig, Sitt, etc. I, II; no collegiate credit.

17. First Year.—Scales and Arpeggios through the seventh position; Kreutzer Studies; David Violin School (advanced) Mozart

^{*} Since it is undesirable and impossible to establish a set course for all students, the course outline given above must be taken only as indicating the general scope of the work required of each student.

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Sonatas, Nos. 5, 7, 8, 12, and 17; Concertos, Viotti, Kreutzer. I. II; (6).

17a. One year.—The first year's work in violin taken as a minor subject by collegiate students majoring in piano or voice. I, II; (2).

- 18. Second Year.—Kreutzer Studies: Meerts' Mechanism of the Violin (advanced); Beethoven, Sonatas, Nos. 1, 5, 6. Concertos, Rode. Andante and rondo Capriccio David. I, II; (6).
- 19. Third Year.—Sevcik Studies; Fiorillo and Rode Studies (selected); Sonatas, Greig Op. 8, Gade; Concertos; No. 2. Mozart A, E flat. I, II; (7).
- 20. Fourth Year.—Gavinies Studies; Dancla Studies Op. 73; Sonatas, Grieg Op. 43, Braems 78; Concertos, Mendelssohn, Bruch, etc. I, II; (8).

VIOLONCELLO*

Assistant Professor Schwartz

- 31a, 31b, 31c. Preparatory Course: Three years. At the conclusion of the course the student will be examined upon the following: DeSwert, Cello Method; Klengel, Technical Studies; Litolff, Volkslieder Album, two parts; Marx Markus, Op. 40; characteristic pieces. I, II; no collegiate credit.
- 32. First Year.—Dotzanert, Selected Studies; Furino, Polonaise; Golterman, Nocturnes; Kengel, Concertino. Op. 7. I, II; (6).
- 33. Second Year.—Lee Studies: Op. 31, No 1; Romberg, Op. 42, 46, 65; Golterman, Concerto in G. I, II; (6).
- 34. Third Year.—Lee Studies: Op. 31. No. 2; Golterman, Concerto in D; Klengel, Concertstück in D. I, II; (7).
- 21. University Orchestra.—Two-hour rehearsal once a week. I, II; (1). Professor Mills
- 22. University Choral Society.—One-hour rehearsal once a week. I, II; $(\frac{1}{2})$. Professor Mills
- 23. EAR TRAINING.—Two hours a week for two years; required of all music students, except students in the course in Public School Music (see Music 23a). I, II; (1, second year).

Mrs. Constance Barlow Smith

23a. EAR TRAINING.—Four hours a week for one year; required of students in the course in Public School Music. Theory and practice teaching. *I, II;* (1). Mrs. Constance Barlow Smith

^{*} Since it is undesirable and impossible to establish a set course for all students, the course outline given above must be taken only as indicating the general scope of the work required of each student.

24. SIGHT SINGING.—Two hours a week for two years; required of all music students, except students in the course in Public School Music (see Music 24a). I, II; (1, second year).

Mrs. Constance Barlow Smith

24a. Sight Singing.—Four hours a week for one year; required of students in the course in Public School Music. Theory and practice teaching. I, II; (1). Mrs. Constance Barlow Smith

25. METHODS OF TEACHING.—Elements of theory, eye and ear training, the limitations of the child-voice, selection of material, pedagogical presentations, appreciation work for the high school. (Offered primarily for students who desire to teach music successfully in the public schools.) I. II: (4).

Mrs. Constance Barlow Smith

26. Band Instruments.—Band, orchestra, or solo work. I. II; no credit.

Mr. A. A. Harding

27. Ensemble Class.—Trios, Quartets, and Quintets by classical and modern composers. (Open to all students who are sufficiently advanced to undertake the course profitably.) *I*, *II*; no credit.

PALEONTOLOGY

(See Geology 1a, 16, 18, 19, 20, 21.)

PHILOLOGY

(See The Classics, English Language and Literature, Germanic Languages and Literature, and Romance Languages and Literature.)

PHILOSOPHY

(See also Psychology and Education.)

ARTHUR HILL DANIELS, Ph.D., Professor BOYD HENRY BODE, Ph.D., Professor QUEEN LOIS SHEPHERD, A.M., Assistant

Honors

Candidates for honors in philosophy must offer:

- 1. In the major subject, 24 hours, 6 of which must be in psychology.
- 2. Minors in either: psychology (at least 6 hours in addition to the amount of psychology required for the major) and any one

other subject listed below; or any two subjects from the same group—

- (a) Economics; history, political science; education; sociology.
- (b) English; French; German; Greek; Latin.
- (c) Botany; chemistry; mathematics; physics; zoology.

No course in any subject of the above groups may be counted for the minor requirement if it is excluded from the major requirement of its respective department.

Students who make philosophy a major should take at least one year of psychology. With the exception of I and IO, no course in philosophy may be taken before the completion of two years of university work.

- I. Logic.—The principles of reasoning; detection of fallacies;
 evidence. I; (3).
 Professor Bode, Miss Shepherd
 - Prerequisite: One year of university work.

Ib. Logic.—(The same as I.) II; (3).
Professor Bode, Miss Shepherd

- 2. Introduction to Philosophy.—The relation of philosophy to modern science; problems of philosophy; representative forms of philosophic theory. II; (3).

 Professor Bode
- 3. Ancient and Medieval Philosophy.—The development of speculative thought; Greek philosophers; the medieval period. *I*; (3). Professor Daniels

Prerequisite: Three hours in philosophy.

4. Modern Philosophy.—Problems and conceptions in philosophy from Descartes to the present time. Selections from the masterpieces of this period. II; (3).

Professor Daniels

Prerequisite: Philosophy 3.

7. Ethics.—The beginnings and growth of morality; leading conceptions of moral theory; typical social and economic problems of the present. II; (3).

Professor Daniels

Prerequisite: Three hours in philosophy.

[8. Esthetics.—The appreciation of art and nature; place of such appreciation in life; primitive arts and appreciation; modifications of the esthetic (such as the sublime and the ugly); the fine arts. I; (3). Not given in 1912-13.

Prerequisite: An elementary course in philosophy or psychology.]

9. POLITICAL AND SOCIAL ETHICS.—Moral principles applied to political and social relations. *I*: (2). Professor Daniels

[10. THE PHILOSOPHIC THOUGHT OF THE NINETEENTH CENTURY AS REFLECTED IN ENGLISH LITERATURE.—Wordsworth; Carlyle; Emerson; Tennyson; Browning; Arnold. I; (2). Not given in 1912-13. Professor Bode]

[11. HISTORY AND PHILOSOPHY OF RELIGION.—The philosophical interpretation of religious consciousness; various religious concepts: God; revelation; inspiration, dogma; faith; prayer; immortality; evil; morality and religion. *I*, *II*; (2). Not given in 1912-13.

Professor Daniels

Prerequisite: Senior or graduate standing; six hours in psychology, philosophy, or both.]

15. The British Philosophers of the Eighteenth Century.—Locke, Berkeley, and Hume. I; (3). Professor Bode

Prerequisite: Philosophy 2 or 3 or 4.

16. American Philosophy.—II; (3). Professor Bode

Prerequisite: Philosophy 15.

COURSES FOR GRADUATES

Every student entering upon graduate work in philosophy must have had a thorough general course in the history of philosophy, a course in logic, and a general course in psychology.

[101. THE PHILOSOPHY OF PLATO AND ARISTOTLE.—Twice a week; I, II. Not given in 1912-13. Professor Daniels]

102. Seminar: Contemporary Philosophy.—Present day idealism, realism, and pragmatism. Twice a week; I, II. Professor Bode

[103. Seminar: Ethical Theory.—Once a week; I, II. Not given in 1912-13. Professor Daniels]

104. The Philosophy of Descartes, Spinoza, and Leibniz.—
Twice a week; I. Professor Daniels

105. The Philosophy of Schopenhauer and Lotze.—Twice a week; II. Professor Daniels

PHYSICAL TRAINING

FOR MEN

George A Huff, Director
Harry Lovering Gill, Assistant Director, Instructor, Track
Leo Gregory Hana, Director, Men's Gymnasium
Edward John Manley, Instructor, Swimming
Roy Newton Fargo, B.S., Assistant
Ralph Jones, Assistant

I. GYMNASIUM PRACTICE.—Two hours' gymnasium drill each week. (Required of freshmen.) I, II; (1); arrange time.

Mr. HANA

- 1a. Personal Hygiene.—Six lectures. Required in conjunction with Physical Training 1. I. Dean CLARK
- 2. Gymnasium Practice.—Two hours each week in advanced heavy apparatus work. I, II; arrange time. Mr. Hana

FOR WOMEN

GERTRUDE EVELYN MOULTON, A.B., Director MARY EDITH WILLIAMS, A.M., Instructor VERNA BROOKS, A.B., Assistant MARION CHARLOTTE LANDEE, Assistant ROSA-LEE GAUT, B.Mus., Pianist

7. PRACTICE.—Class work and games. (Required of freshmen.) I, II; (1).

Miss Moulton, Miss Williams, Miss Brooks, Miss Landee

- 8. Practice.—(Continuation of 7. Second year, elective.) *I, II;* (1). Miss Williams, Miss Brooks
 - HYGIENE.—(Required of all freshmen girls.) I; (1).
 Acting Dean FAWCETT
- 10. Teachers' Course.—Third year. Practice in the public schools, two hours; theory, one hour. I, II.

Miss Moulton, Miss Brooks

II. Teachers' Course.—Fourth year. Practice teaching in the gymnasium, two hours; theory, one hour. I, II.

Miss Williams, Miss Landee

PHYSICS

ALBERT PRUDEN CARMAN, D.Sc., Professor
CHARLES TOBIAS KNIPP, Ph.D., Assistant Professor
FLOYD ROWE WATSON, Ph.D., Assistant Professor
WILLIAM FREDERICK SCHULZ, E.E., Ph.D., Assistant Professor
JAKOB KUNZ, Ph.D., Assistant Professor, Mathematical Physics
ELMER HOWARD WILLIAMS, Ph.D., Associate
JOHN WESLEY HORNBECK, A.M., Instructor
GLENN ALFRED SHOOK, A.B., Instructor

ORRIN HAROLD SMITH, A.M., Assistant
LLOYD THEODORE JONES, A.M., Assistant
OSCAR ALAN RANDOLPH, B.S., Assistant
EARLE HORACE WARNER, A.B., Part-time Assistant
WILLIAM HARRY BAIR, B.S., Part-time Assistant

INTRODUCTORY COURSES FOR UNDERGRADUATES

I. GENERAL PHYSICS.—Lectures with class-room demonstrations; recitations; written exercises. (For sophomores in engineering, mathematics, physics, and chemistry.) I; (3). II; (2).

Professor Carman, Assistant Professor Schulz, Mr. Hornbeck Mr. Shook, Mr. Jones, Mr. Warner, Mr. Bair

Prerequisite: Mathematics 3 or 4; registration in Physics 3.

3. Physical Measurements.—Laboratory experiments; quizzes in connection with Physics 1. I, II; (2).

Assistant Professor Schulz, Mr. Hornbeck, Mr. Shook, Mr.

Jones, Mr. Warner, Mr. Bair

Prerequisite: See Physics 1.

2a. General Physics.—Lectures, with class-room demonstrations; recitations. (For students in courses in arts and science.) I, II; (2½). Assistant Professor Watson, Dr. Williams

Prerequisite: Completion of or registration in Mathematics 3 or 4; registration in Physics 2b.

2b. Introductory Laboratory Physics.—Physical measurements. I, II; (2½). Dr. Williams

Prerequisite: See Physics 2a.

15. Electricity and Magnetism.—Laboratory; lectures; assigned readings; reports. *I*, *II*; (2).

Assistant Professor Knipp, Mr. Smith

Prerequisite: Physics 1, 3; or 2a, 2b.

16. HEAT.—I; (2). Assistant Professor Watson Prerequisite: Physics 1, 3; or 2a, 2b.

17. Light.—Recitations; laboratory. Edser's Light. II; (2).

Assistant Professor Schulz

Prerequisite: Physics 1, 3; or 2a, 2b.

18. TEACHERS' COURSE.—I; (2). Assistant Professor Watson Prerequisite: Physics 1, 3; or 2a, 2b.

ADVANCED COURSES FOR GRADUATES AND UNDERGRADUATES

4. ELECTRICAL AND MAGNETIC MEASUREMENTS.—Exact electrical and magnetic measurements with accompanying theory. Laboratory exercises; discussions; recitations. I, II; (2).

Assistant Professor Knipp, Mr. Smith, Mr. Randolph Prerequisite: Physics 1, 3; or 2a, 2b; Mathematics 7, 9.

14. MECHANICS AND ADVANCED GENERAL PHYSICS.—An introduction to theoretical physics involving the calculus. First semester: dynamics with a brief introduction to thermodynamics. Second semester: elementary mathematical theory of electricity and magnetism, with a brief introduction to theory of light. I, II; (3).

Assistant Professor Kunz

Prerequisite: A course in general physics, such as Physics 2a and 2b, or 1 and 3, and a course in calculus.

20a. Light.—Special phenomena; modern theories; readings in texts of Drude, Wood, and Preston. Lectures; recitations. *I* or *II*; (2).

Assistant Professor Schulz

Prerequisite: Physics I, 3; or 2a, 2b; Mathematics 7, 9; or 8a. 2ob. Light.—Light measurements. Laboratory. I or II; (2 to 5).

Assistant Professor Schulz

Prerequisite: Physics 1, 3; or 2a, 2b; Physics 17 desired.

- 21. RECENT ADVANCES IN PHYSICAL SCIENCE.—Lectures illustrated by experiments. II; (1). Assistant Professor Knipp
 - 23. Sound.—Twice a week; II. Assistant Professor Watson
 - 25. HEAT.—II; (2). Assistant Professor WATSON Prerequisite: Physics I, 3; or 2a, 2b; Physics 16 advised.
- 29. ELECTRICAL OSCILLATIONS.—Oscillating currents of both low and high frequencies, with particular attention in the second semester to the theory to wave telegraphy and telephony. *I, II;* (3).

Professor CARMAN

Prerequisite: Physics 1, 3; Mathematics 7, 9.

30a. Introduction to Theoretical Electricity.—The phenomena with elementary calculus methods. Lectures; recitations; occasional demonstrations. Foster and Porter's Electricity and Magnetism; Thompson's Elements of Electricity and Magnetism. I, II; (2).

Assistant Professor KNIPP

30b. Electricity and Magnetism.—Electrical measurements; self and mutual induction; standardization and calibration work; electrical discharge through gases. *I or II*; (2 to 5). Dr. WILLIAMS

31. Special Problems in Advanced Physical Measurements.—(2 or 3).

Professor Carman, Assistant Professors Knipp, Watson, and Schulz. Dr. Williams

COURSES FOR GRADUATES

The prerequisite for graduate work in physics is a college course in general physics with a year's laboratory course in introductory physical measurements. The student who is to do major work in physics should also have had additional courses in physics or teaching experience, unless the training in his minor subject, mathematics or chemistry, has been strong and complete. He should also have a knowledge of French and German sufficient to use references in these languages. The courses named below are those open for candidates for the master's or doctor's degree. A large part of the last year's work of the candidate for the doctor's degree is investigational, along either the experimental or the theoretical side of physics. In addition to these major graduate courses, the courses in elementary dynamics, heat, light, electrical measurements, and introductory electrical theory (courses 114, 125, 120, 104, 130), are arranged with certain additions for graduate credit. The "intermediate" courses on heat, light, and electricity and magnetism (courses 15, 16, 17), may be offered by students making a minor in physics.

- [121. RECENT ADVANCES IN PHYSICAL SCIENCE.—Lectures illustrated by experiments. Written reports giving original discussions of one or more of the topics discussed during the semester. Not given in 1912-13.

 Assistant Professor Knipp]
- 123. Sound.—Lectures; recitations. Rayleigh's Sound, Auerbach's Akustik, and Barton's Sound. Twice a week; I, II.

Assistant Professor Watson

124. Conduction of Electricity Through Gases.—The electrical conductivity of gases; ions and ionisation; the effect of a magnetic field; the motion of ions; spark discharge; cathode rays; Roentgen rays; canal or positive rays; related phenomena of radioactivity. Lectures; discussions. Three times a week; I, II.

Assistant Professor Knipp

126. Physics Colloquium.—Weekly meetings of the instructors and advanced students of the department for the presentation and discussion of papers on current problems. Many of these papers

are on investigations in progress in the laboratory and experimental demonstrations are used. Attendance is expected of all the graduate students, though it is not registered except in the cases of those making special reports on original investigations. Once a week; I, II.

- 127. ELECTRON THEORY.—Seminar. The theories of the constitution of the atom; the phenomena of the emission and absorption spectra. (Of special interest to students in advanced chemistry.)

 Twice a week; II.

 Assistant Professor Kunz
- 131. Investigation of Special Problems.—Advanced laboratory or design and calculation. A problem worked out with the advice and direction of the instructor. Two to four times a week; I, II.

Professor Carman, Assistant Professors Knipp, Watson, Schulz, and Kunz, Dr. Williams

- 132. MATHEMATICAL PHYSICS.—Special phases in theoretical physics.
- [(a) DYNAMICS.—First part: dynamics of a material system; determination of the center of gravity; of moment of inertia and of potentials. Second part: the principle of least action; Lagrange's equations; motions of the top and applications. Three times a week; I, II. Not given in 1912-13. Assistant Professor Kunz]
- (b) ELECTRODYNAMICS.—Lectures; collateral reading. Solution of problems from Jeans' Mathematical Theory of Electricity and Magnetism. The potential theory: spherical harmonics, conjugate functions, some theorems of the vector analysis; capacities, coefficients of self and mutual induction; theory of absolute electrical measurements; the condenser discharge with its application in wireless telegraphy; Maxwell's theory, with some applications in optics, such as the optical properties of metals; modifications of Maxwell's theory: the theory of relativity and the electromagnetic emission theory of light. (Continued in the following year in Physics 132d.)

 Assistant Professor Kunz
- [(c) THERMODYNAMICS.—Fundamental principles with applications to physical and chemical phenomena. Lectures; recitations. Three times a week; I, II. Not given in 1912-13.

Assistant Professor Kunzl

[(d) THEORY OF ELECTRICAL OSCILLATIONS AND CYLINDRICAL HARMONICS.—Electrical oscillations along parallel wires, the vibrations from a Hertz oscillator and from an antenna, the resonance phenomena between sending and receiving stations and the absorp-

tion of electrical waves; cylindrical harmonics used in problems of a vibrating membrane, of the conduction of heat and electricity through cylinders, and of electrical waves proceeding along wires. Twice a week; I, II. Not given in 1912-13.

Assistant Professor Kunz]

133. SEMINAR.—Three or five times a week; I, II.

Professor Carman, Assistant Professors Knipp, Watson, Schulz, Kunz

PHYSIOLOGY

WILLIAM EDWARD BURGE, Ph.D., Assistant Professor Otis Orin Stanley, M.S., M.D., Instructor Joseph Howard Beard, A.M., M.D., Instructor

Of the courses outlined below, I and 2 are designed primarily for medical students, or for those intending to specialize in histology or physiology; course 4, for prospective teachers of high-school biology or students from other colleges desiring a course in general physiology; courses 3, 5, may be taken by seniors in the medical course and course 103 by graduate students.

The laboratory is equipped for the pursuance of research involving the use of apparatus necessary for physiological, histological, bac-

teriological, and chemical work.

HISTOLOGY.—Fundamental mammalian tissues; microscopic anatomy of the organs. Lectures and laboratory. (Full medical credit in histology.) I; (5). Assistant Professor Burge, Dr. Beard Prerequisite: Physics 2a; Chemistry 1, 2, 3, 5a, 9, 9c; Zoology 2, 3.

2. MAJOR COURSE.—Physiology of nerve and muscle; circulation; respiration; secretion; digestion; metabolism. Lectures and laboratory. (Full medical credit in physiology.) II; (10).

Assistant Professor Burge, Dr. Beard

Prerequisite: The same as for Physiology 1.

- 3. UNDERGRADUATE THESIS.—(For undergraduates who wish a thesis course,)
- 4. Minor Course.—Practical hygiene; teaching physiology in high schools. Lecture demonstrations; recitations; laboratory work. I; (5).

 Assistant Professor Burge, Dr. Beard

Prerequisite: Chemistry 1; Zoology 1.

5. Special Physiology.—(For advanced students who wish to take up a special line of work not specified in one of the other courses and not involving the preparation of a thesis.) Laboratory; conferences. *I*, *II*; (3 hours or more).

Assistant Professor Burge, Dr. Stanley, Dr. Beard

Prerequisite: The consent of the head of the department.

6. HYGIENE.—See Physical Training 9.

COURSE FOR GRADUATES

103. RESEARCH.

Assistant Professor Burge, Dr. Stanley, Dr. Beard

III. PHYSIOLOGICAL JOURNAL CLUB.—Meetings of the teaching staff of the department, the graduate students, and advanced undergraduates to discuss articles of interest in current journals. Each student is expected to report a paper about once in two months.

POLITICAL SCIENCE

(See also Economics, History, and Sociology.)

James Wilford Garner, Ph.D., Professor John Archibald Fairlie, Ph.D., Professor Walter Fairleigh Dodd, Ph.D., Assistant Professor John Mabry Mathews, Ph.D., Associate

Honors

For honors in political science:

- 1. The major of 24 hours in political science may, with the consent of the department, include courses in constitutional history (History 4 and 14), political philosophy (Philosophy 5), or not exceeding 6 hours of Law.
- 2. One minor must be history, in which courses must be offered aggregating not less than 12 hours. The other minor may be economics, sociology, or philosophy, aggregating not less than 9 hours.
 - 3. A reading knowledge of one modern language is advised.

COURSES FOR UNDERGRADUATES

Courses I and 3 are intended to furnish a general survey of the field of national, state, and local government in the United States, and should be taken by all students who expect to specialize in political science.

I. AMERICAN NATIONAL GOVERNMENT.—Historical development, organization, powers, limitations, and practical working of national government in the United States. I_j (3).

Professor Garner, Dr. Mathews

Prerequisite: Thirty hours of university work.

3. STATE AND LOCAL GOVERNMENT.—Powers, obligations, and limitations of states in the Federal Union; formation and admission of states; development of state constitutions; organization of state and local government; political methods. (A continuation of course 1; may be taken independently). II; (3).

Professor Garner, Dr. Mathews

Prerequisite: Thirty hours of university work.

16. Government of Illinois.—Constitutional development; organization and administration of state and local government; the legislature; the executive; the judiciary; state officers and institutions; county, town, and municipal government. II; (2).

Professor Fairlie

Prerequisite: Thirty hours of university work.

ADVANCED COURSES FOR UNDERGRADUATES AND GRADUATES (At least junior standing required)

4. Municipal Government.—The growth of cities; municipal organization and functions in the United States; the mayor and council; commission government; police, light, and water supply; city planning; urban transportation; municipal ownership and regulation of public utilities; charities; education. Lectures; assigned readings; reports. *I*; (3).

Professor Fairlie

Prerequisite: One course in political science or Economics 1.

5. Constitutional Law of the United States.—The judicial interpretation of the constitution of the United States; judicial power to declare laws unconstitutional; separation of governmental powers; relation between state and national governments; fundamental rights under the constitution (due process of law, contract); territories and dependencies; national powers with respect to taxation, commerce; jurisdiction of United States courts. *I*; (4).

Assistant Professor Dodd

Prerequisite: Political Science I.

6. International Law.—The development of the law of nations; its nature, source, and present status; the equality of states; the doctrine of intervention; the laws of war and peace; the right

and duties of neutrals; the arbitration movement. Lectures; assigned readings; reports. I; (3). Professor Garner

Prerequisite: Graduate or senior standing, or junior standing with 6 hours of history, 5 hours of political science.

[7. AMERICAN DIPLOMACY.—Genesis and present organization of the Department of State; the diplomatic service; the treaty making power; the methods and traditional principles of the foreign policy of the United States; historical review of the principal diplomatic controversies between the United States and foreign powers from the foundation of the government to the present time; the rise of the United States to the position of a world power. II; (3). Given in alternate years; not given in 1912-13. Dr. Mathews

Prerequisite: Junior standing and Political Science I or History 3.]

9. Principles of Jurisprudence.—The nature of law; historical development of Roman and English legal systems; English common law in the United States; sources of law and relation between statutes and judicial decisions; brief discussion of the various branches of law (crime, tort, contract) and their relation to one another. I; (3).

Assistant Professor Dodd

Prerequisite: Course I or its equivalent; junior standing.

10. Administrative Law in the United States.—Separation of governmental powers and delegation of legislative power; federal and state administrative organizations; powers of administrative officers; methods of enforcing governmental commands; remedies of the individual against unlawful action of public officials (civil suit, criminal action, mandamus, injunction). II; (3).

Assistant Professor Dodb

Prerequisite: Course 5 and at least junior standing.

II. CONSTITUTIONAL ASPECTS OF SOCIAL AND INDUSTRIAL PROBLEMS.—The police power for the protection of the public safety, health, and welfare; constitutional limitations upon legislation concerning the public health and safety, the control of public service corporations and combinations of capital, and labor legislation. II; (3).

Assistant Professor Dodd

Prerequisite: Senior standing and at least 5 hours in political science; Political Science 5, or Economics 12 recommended.

12. NATIONAL ADMINISTRATION.—Administrative powers of the President and Congress; executive departments and administrative

services of the national government; judicial administration and the relation of the courts to the executive authorities. II; (3).

Professor FAIRLIE

Prerequisite: Political Science 1.

13. State Administration in the United States.—The administrative position of the governor, and the organization of the state administrative departments; state administrative disintegration and the influence of the diffusion of executive power upon the enforcement of state law; organization and powers of state boards, commissions, and quasi-judicial tribunals; tendencies toward centralization in the administration of taxation, education, and other state functions; methods of control over state administrative officers. *I*; (3).

Dr. MATHEWS

Prerequisite: Political Science 3 or its equivalent.

14. Political Parties and Methods.—Development of political parties; party organization and methods in the United States and Great Britain; recent legislation on primary elections and corrupt practices. *I*; (2).

Professor Fairlie

Prerequisite: One course in political science.

18. World Politics.—The main currents of international politics in Europe since the Treaty of Berlin; the balance of power, the mutual relations and present grouping of the principal European states, and the extension of their interests in the Near and Far East; the colonial expansion of the United States since the Spanish War, and the present position of the United States as a world power. (Given in alternate years; course 7 will be given in its place in 1913-14.) II; (3).

Prerequisite: Junior standing and History 1; History 20 recom-

21. British Government.—Political institutions in the United Kingdom and the British possessions: the Crown; the Cabinet; the House of Commons; the House of Lords; the party system; the courts of law; local government; government in the Crown Colonies and the self-governing colonies; recent developments and proposed changes. (Open to graduate students and to seniors who have had six hours in political science.) I; (3).

Professor Fairlie

22. CONTINENTAL EUROPEAN GOVERNMENTS.—The national political systems of France, Germany, Austria-Hungary, Italy, and Switzerland; constitutional beginnings; political organizations;

methods of legislation and administration; constitutional guaranties for the protection of individual rights. (Open to graduate students and seniors who have had six hours in political science; History 20 recommended.) II; (3).

Professor Garner

28. Problems of Contemporary Politics.—The larger questions of present day politics, domestic and foreign; such as the initiative and the referendum; proportional representation; state socialism; universal suffrage; electoral reform; local self-government; judicial reform, parliamentary government, the Monroe Doctrine. Reports by individual members of the class and general discussion. II; (2).

Professor GARNER

Prerequisite: Senior or graduate standing.

[30. Law of Taxation.—Constitutional limitations upon the taxing power; legal rules governing the assessment and collection of taxes. II; (3). Not given in 1912-13.

Assistant Professor Dodd

Prerequisite: Political Science 5 or Economics 5.]

COURSES FOR GRADUATES

101. HISTORY OF POLITICAL THEORIES.—Development and history of ancient, medieval, and modern political thought; political theories of Aristotle, Machiavelli, Hobbes, Locke, Rousseau, Montesquieu, and others; evolution of American political ideas. II.

Professor GARNER

102. THE NATURE OF THE STATE.—The principles, methods, and relations of political science; the origin, nature, forms, and functions of the state; sovereignty and liberty; citizenship and nationality; constitutions; principles of political organization. I.

Professor Garner

103. SEMINAR IN POLITICAL SCIENCE AND PUBLIC LAW.—Special problems; reports; discussions and criticism. The research work of candidates who are writing theses is under the direction of some instructor, to whom they report frequently. I, II.

104. MUNICIPAL ADMINISTRATION.—Municipal organization and functions in the United States and Europe: the relations between city and state; local organization; political methods and reform movements; police and health administration; public works; municipal ownership; public regulation of public utilities. The topics vary from year to year. Lectures; reading; special reports. II.

Professor FAIRLIE

105. Special Topics in Constitutional Law of the United States.—Subject in 1912-13: judicial power over legislation. In succeeding years: (1) the development of federal power; (2) interstate commerce; (3) judicial interpretation of the Constitution of Illinois.

Assistant Professor Dodd

PSYCHOLOGY

(See also PHILOSOPHY and EDUCATION.)

ISAAC MADISON BENTLEY, Ph.D., Professor ARTHUR HOWARD SUTHERLAND, Ph.D., Associate

Students who do major work in psychology should take a minimum of six hours in philosophy, four of which will be counted as a part of the total number of hours required for the major in psychology. The courses specially advised are Philosophy 3 and 4.

Psychology I and 2 offer a continuous course and cannot be taken separately for credit. These courses are the prerequisites for all further courses in psychology. No student may do graduate work in psychology without having had these two introductory courses and at least three credit hours in philosophy.

Honors

Candidates for honors in psychology must offer:

- 1. At least 24 semester hours in psychology, of which at least 6 shall be in the laboratory course and 6 in philosophy.
- 2. Two minors from the subjects listed below under groups (a) and (b). This selection must be so made that at least 15 hours shall be completed in some subjects taken from one of these groups, and at least 9 hours from some subject in the other of these groups.

These groups are as follows:

- (a) Physics; physiology; zoology.
- (b) Education; philosophy; sociology.

COURSES FOR UNDERGRADUATES

I. Introduction to Psychology.—The standpoint and the methods of psychology; the simple processes, attention and perception; mental inheritance, habit, custom, and fashion. Lectures; sectional meetings. I; (3). Professor Bentley, Dr. Sutherland

Prerequisite: One year of university work.

2. Introduction to Psychology (Continued).—Emotive and volitional complexes; association, memory, action and thought; the

relations of psychology to the biological and the social sciences; comparative and genetic psychology, and the psychology of the abnormal; applications of psychology to the arts and professions. [By special arrangement, students whose grading in the course is high may elect, during the second semester (in addition to course 2), experimental work in the laboratory (See course 3, below). The completion of Courses 1 and 2, or equivalent work, is necessary to the election of more advanced subjects offered by the department.] II; (3).

Professor Bentley, Dr. Sutherland

- 3. LABORATORY PRACTICE.—Scientific method; classical experiments in the fields of sensation, affection, attention, and action. Laboratory practice; lectures; conferences; demonstrations. (Introductory to the pursuit of special problems and to psychological research.) I or II; (3). Professor Bentley, Dr. Sutherland
- 4. LABORATORY PRACTICE (Continued).—Experiments in memory, association, learning, and thought. (A part of the term may be devoted either to the metrical methods of psychophysics or to the solution of a small qualitative problem. II; (3).

Professor Bentley, Dr. Sutherland

COURSES FOR UNDERGRADUATES AND GRADUATES

6. Comparative Psychology.—Mind in the various animal forms; the psychological implications of the bionomic doctrine of descent; a comparison of human and animal minds; criticism of current literature. (Recommended to students who intend to do advanced work either in animal psychology or in the study of behavior.) I; (2).

Professor Bentley

Prerequisite: Psychology 1, 2.

9. Physiological Psychology.—The physiology and psychology of the central nervous system. Lectures; laboratory. I; (2).

Dr. Sutherland

Prerequisite: Psychology 1, 2.

12. MINOR PROBLEMS.—The formulation of methods suitable to new problems, and the conduct of small investigations. (At the discretion of the department, studies in the current literature or the presentation of essays upon historical subjects may be substituted for laboratory problems.) I, II; (2-5).

Professor Bentley, Dr. Sutherland

Prerequisite: Psychology 1, 2, 3, 4.

COURSES FOR GRADUATES

101. RESEARCH.—Advanced problems; theses offered for graduate degrees. I, II. Professor Bentley, Dr. Sutherland

102. Contemporary Literature.—Seminar meetings for the discussion of current topics considered in their historical setting. I, II.

Professor Bentley, Dr. Sutherland

113. Psychology of the Abnormal.—Defects of sensation; illusions and hallucinations; automatisms, trance states and hypnosis; suggestion and dreams; the subconscious; defects of speech; defects of emotion and volition; defects of memory and association; obsessions and impulsions; genius and insanity; temperament and personality. II.

Dr. Sutherland

PUBLIC SPEAKING (See Rhetoric.)

RAILWAY ENGINEERING

WILLIAM FREEMAN MYRICK GOSS, M.S., D.Eng., Director, Professor Edward Charles Schmidt, M.E., Professor

John McBeath Snodgrass, B.S., Assistant Professor, Railway Mechanical Engineering

Alonzo Morris Buck, M.E., Assistant Professor, Railway Electrical Engineering

FRANKLIN WALES MARQUIS, M.E., Associate

ARTHUR FRANCIS COMSTOCK, B.S., Instructor, Railway Civil Engineering

Railway Civil Engineering—Courses 31-50. Railway Electrical Engineering—Courses 61-65. Railway Mechanical Engineering—Courses 1-30.

RAILWAY MECHANICAL ENGINEERING

I. Locomotives.—The mechanics of the locomotive; problems relating to its operation; the engine and valve mechanism; counterbalancing; the determination of tractive effort; tonnage rating problems; the development of types. (The course is co-ordinated with courses 2 and 8.) I; (2).

Professor Schmidt Prerequisite: Theoretical and Applied Mechanics 9; Mechanical

Engineering 3, 15, 16.

2. Locomotive Design.—Calculations and designs of engine and

boiler details; current standards and proportions. Drafting room systems. *I*; (3). Assistant Professor SNODGRASS

Prerequisite: Mechanical Engineering 3, 4, 5, 15, 16; Theoretical and Applied Mechanics 9; registration in Railway Engineering 1.

3. Shops and Auxiliary Equipment.—The design and equipment of railway shops and roundhouses; their management and organization, supplemented by shop visits; water purifying plants and pumping stations; air-brake equipment. II; (2).

Assistant Professor SNODGRASS

Prerequisite: Mechanical Engineering 3, 4; Chemistry 1b or 1a.

4. Locomotive Performance.—Locomotive boiler and engine performance; the influence upon performance of combustion rate, steam pressure, speed, cut-off and other valve relations, compounding, and superheating. I; (2). Assistant Professor Snodgrass

Prerequisite: Theoretical and Applied Mechanics 8; Mechanical Engineering 3, 4, 5, 15, 16.

7. ADVANCED DESIGN.—Problems in locomotive and car design.

II; (3). Professor Schmidt, Assistant Profesor Snodgrass

Prerequisite: Railway Engineering 2.

8. DYNAMOMETER CAR TESTS.—Investigation of train resistance and locomotive tractive effort, by the use of the railway test car in trains on the Illinois Central Railroad; discussion and exemplification of the application of the results to the determination of tonnage ratings. *I*; (2).

Mr. Marquis

Prerequisite: Open to seniors in railway courses only.

10. SEMINAR.—Discussion of current topics and review of railway journals. Assigned topics and reports. I, II; (1).

Professor Schmidt, Assistant Professor Buck, Assistant Professor Snodgrass, Mr. Comstock

Prerequisite: Open to seniors in railway courses only.

II. RAILWAY TESTS.—Train resistance on steam roads and work with the electric test car. (For students in other departments of the College of Engineering.) II; (2).

Assistant Professor Buck, Assistant Professor Snodgrass, Mr. Marquis

. Prerequisite: Mechanical Engineering 3; Electrical Engineering 6.

30. Thesis.—Independent solution of some problem or investigation of some subject. The thesis may consist of a design or of an

original experimental investigation, or it may be the analysis and discussion of data already in existence. II; (3).

Professor Schmidt, Assistant Professor Buck, Assistant Professor Snodgrass, Mr. Comstock

RAILWAY CIVIL ENGINEERING

31. RAILWAY YARDS AND TERMINALS.—The theory and practice of the proper location of frogs and switches; the design of yards to insure efficiency of operation; the details of track construction. II; (3).

Mr. Comstock

Prerequisite: Civil Engineering 4.

32. RAILWAY STRUCTURES.—The details of railway structures; problems in original design. II; (2). Mr. Comstock

Prerequisite: Civil Engineering 4 and 5.

33. Economic Theory of Railway Location.—The influence of location upon the net earning power of a line of railway. I; (4).

Mr. Comstock

Prerequisite: Civil Engineering 4; Theoretical and Applied Mechanics 7, 8.

35. Signal Engineering.—The general arrangement of automatic block signals on single and double track lines; interlocking systems for terminals; details of construction and of operation. I; (1).

Mr. Comstock

Prerequisite: Civil Engineering 4.

50. Seminar.—Discussion of current topics; review of railway journals; assigned topics and reports. *I, II;* (1).

Professor Schmidt, Assistant Professor Snodgrass, Assistant Professor Buck, Mr. Comstock

RAILWAY ELECTRICAL ENGINEERING

61. Traction.—Electric railway equipment and practice. The work of the course is exemplified by the use of the electric test car owned by the department. (For students in electrical engineering or railway mechanical engineering.) II; (3).

Assistant Professor Buck

Prerequisite: Theoretical and Applied Mechanics 8; Electrical Engineering 16, 6; or 3, 24.

63. RAILWAY LABORATORY AND ROAD TESTS.—Electrical laboratory problems and electric car and dynamometer car tests to deter-

mine train resistance and power consumption for electric cars and steam trains. II; (3). Assistant Professor Buck

Prerequisite: Railway Engineering 64; Electrical Engineering 24.

64. ELECTRIC RAILWAY PRACTICE.—The types of electric railway systems and apparatus; the engineering problems met with in preliminary road location, in the selection of electrical equipment, and in its operation and maintenance. I; (3).

Assistant Professor Buck

Prerequisite: Theoretical and Applied Mechanics 8; Electrical Engineering 5 and 24.

65. Electric Railway Practice.—The problem of steam road electrification. II; (3). Assistant Professor Buck

Prerequisite: Railway Engineering 64.

COURSES FOR GRADUATES

Entrance upon graduate work in railway engineering presupposes the full undergraduate course in that subject.

102. LOCOMOTIVE DESIGN.—Modern practice concerning steam pressure, compounding, superheating. Director Goss

106. LOCOMOTIVE OPERATION.—Determination of train resistance and locomotive tractive effort; application of these and other matters in the establishment of tonnage ratings.

Professor Schmidt

108. ELECTRIC RAILWAY PRACTICE.—The design, selection, operation, and maintenance of electric railway equipment; central station, sub-station, rolling stock, and line equipment.

Assistant Professor Buck

The effects of the location of a railway upon its earning capacity; the engineering and economic problems met with in original location, as well as in the relocation and reduction of grades of existing lines.

Mr. Comstock

RHETORIC

(See English.)

ROMANCE LANGUAGES AND LITERATURE

THOMAS EDWARD OLIVER, Ph.D., Professor

DAVID HOBART CARNAHAN, Ph.D., Associate Professor, Chairman
JOHN DRISCOLL FITZ-GERALD, II, Ph.D., Assistant Professor
JEAN-BAPTISTE BECK, Ph.D., Assistant Professor
ARTHUR ROMEYN SEYMOUR, Ph.D., Associate

DAVID SIMON BLONDHEIM, Ph.D., Associate OLIN HARRIS MOORE, A.M., Instructor WILLIAM SAMUEL HENDRIX, A.M., Assistant INGEBRIGHT LILLEHEI, A.M., Assistant JAY KARL DITCHY, A.B., Assistant

FRENCH

Honors

Candidates for honors in French must offer:

1. A major in French.

- 2. One minor of at least 12 hours in Latin. This is to be in addition to three years of high school Latin.
- 3. One minor of at least 10 hours in one of the following subjects: German, excluding German 1 and 3; Spanish, excluding Spanish 1; Italian; English literature, excluding English 1; history; philosophy.

COURSES FOR UNDERGRADUATES

I. ELEMENTARY COURSE.—Grammar; pronunciation; reading of simple modern authors; composition; conversation. *I, II;* (4). Professor OLIVER, Dr. BLONDHEIM, Mr. MOORE, Mr. HENDRIX,

Mr. LILLEHEI, Mr. DITCHY

2. Modern Prose, Poetry, and Drama.—Rapid reading of modern authors; advanced syntax and composition. I, II; (4).

Associate Professor Carnahan, Assistant Professor Fitz-Gerald, Dr. Blondheim, Mr. Moore

Prerequisite: French I.

3. Intermediate Prose Composition and Conversation.—Conducted entirely in French, giving facility in idiomatic expression in writing and speaking. Reading; themes; talks upon France and French life. I, II; (3).

Dr. Blondheim

Prerequisite: French 2.

Note: This course is required of those who expect the recommendation of the department to teach French.

4. Advanced Composition.—A continuation of French 3 with special emphasis upon advanced syntax. I, II; (2).

Assistant Professor Beck

Prerequisite: French 3.

22. MODERN NOVEL AND DRAMA.—The novel and drama in France

from the beginning of the nineteenth century to the present time. Lectures; reports on collateral reading. I, II; (2).

Dr. SEYMOUR

Prerequisite: French 2.

25. Course for Teachers.—The various methods of teaching French in this country and abroad; actual contact with class-room problems. *I, II;* (1).

Professor Oliver and other members of the department

Prerequisite: Twenty-four hours' credit in French.

28. Senior Thesis.—(Intended primarily for candidates for honors in French, but open to other seniors.) *I*; (2).

Associate Professor CARNAHAN

ADVANCED COURSES FOR UNDERGRADUATES AND GRADUATES

IO. GENERAL SURVEY OF FRENCH LITERATURE.—The literary masterpieces of France; the main currents of French literature from the beginning to the present time. *I, II;* (3).

Associate Professor CARNAHAN

Prerequisite: French 22 or 24.

23. French Poetry.—Lectures; reading; declamation; interpretation. (Conducted in French.) *I, II;* (3).

Assistant Professor Beck

Prerequisite: French 3, and 10 or 22 or 24.

24. Seventeenth and Eighteenth Centuries.—The greater masterpieces of the seventeenth and eighteenth centuries in France. *I, II;* (3). Professor Oliver

Prerequisite: French 2.

COURSES FOR GRADUATES

Before entering upon the study of the Romance languages for an advanced degree, the candidate should have had a total of at least thirty hours of college work in these languages. Eighteen of these hours must be in one of the three languages, French, Italian, or Spanish, but no candidate will be received who has not had at least twelve hours of French. In addition a candidate should have good training in Latin, and be able to read ordinary German prose.

102. OLD FRENCH READINGS.—First Semester: Chrétien de Troyes and the court epic. Second Semester: Readings from Marie de France, the prose chroniclers, and the dramatists of the middle ages. Twice a week; I, II.

Professor OLIVER

108. VULGAR LATIN AND MEDIEVAL LATIN.—The development of

the Latin language, spoken and written, from the earliest times to the Carolingian epoch. (Conducted in French.) Twice a week; I.

Assistant Professor Beck

Assistant Professor Beck

109. HISTORY OF FRENCH LITERATURE IN THE MIDDLE AGES, FROM THE NINTH TO THE FOURTEENTH CENTURY.—(Conducted in French.)

Twice a week; II.

Assistant Professor Beck

[110. OLD PROVENCAL.—The language and literature. (Conducted in French.) Twice a week; I, II. Not given in 1912-13.

Assistant Professor Beck]

[112. Introduction to Romance Philology.—Phonology. Twice a week; I. Not given in 1912-13.

Assistant Professor Fitz-Geraldl

- 113. Introduction to Romance Philology.—Morphology. Twice a week; I.

 Assistant Professor Fitz-Gerald
- 115. French Literary Criticism.—History of criticism in antiquity and in the Italian Renaissance; the work of the principal French critics; the seventeenth and nineteenth centuries; development of classicism and romanticism. Once a week; I, II.

Dr. BLONDHEIM

125. SEMINAR.—Research in Old French literature. Twice a week; I, II.

Associate Professor CARNAHAN

ITALIAN

COURSES FOR UNDERGRADUATES

- T. ELEMENTARY COURSE.—Grammar; composition; conversation; reading of simple modern authors. I, II; (3). Mr. Moore Prerequisite: One year of university work in French, Spanish, or Latin.
- 2. LITERARY COURSE.—First semester: Rapid reading from the works of the Italian writers of the nineteenth century. Second semester: Dante; Petrarch; Boccaccio. I, II; (2). Mr. Moore Prerequisite: Italian I.

SPANISH

COURSES FOR UNDERGRADUATES

I. ELEMENTARY COURSE.—Grammar; pronunciation; easy reading; composition; conversation. *I, II*; (4).

Dr. Seymour, Mr. Hendrix, Mr. Ditchy

2. Conversation and Composition.—Conversation; composition;

reading of modern prose. The vocabulary of everyday life is emphasized. Commercial correspondence. I, II; (3). Dr. Seymour Prerequisite: Spanish I.

3. General Introduction to Spanish Literature.—Rapid reading of selected works of representative modern authors, and of the more important writers of the seventeenth century. *I*, *II*; (2).

Mr. HENDRIX

Prerequisite: Spanish 1.

4. Advanced Conversation and Composition.—Commercial correspondence; reading of commercial Spanish. (Conducted in Spanish.) I; (2). Dr. Seymour

Prerequisite: Spanish 2.

SCANDINAVIAN LANGUAGES AND LITERATURE (See GERMANIC LANGUAGES AND LITERATURE.)

THE SOCIAL SCIENCES

(See Economics, History, Political Science, and Sociology.)

SOCIOLOGY

EDWARD CARY HAYES, Ph.D., Professor ARTHUR JAMES TODD, Ph.D., Associate

Honors

For honors in sociology twenty-four hours in the major subject are required, including Sociology 1, 3, 8, and 9.

The minor subjects may be selected, with the approval of this department, from the following: history, economics, political science, philosophy, and psychology. All candidates must have taken elementary psychology.

COURSES FOR UNDERGRADUATES

I. The Principles of Sociology.—The method and the degree in which society molds the lives of its members; the nature of such social realities as customs, institutions, organizations, social classes, and castes; changes to which the social realities are subject, and their causes; the effects of geographic conditions, of the forms and distribution of property, of inherited and acquired traits of the population, and of prevalent social activities upon each other; order; progress. *I*; (3).

Professor Hayes

Prerequisite: Junior standing, including if possible the principles of economics and elementary psychology.

7. The Social Problems of the Rural Community.—II; (2).

Professor Hayes

Prerequisite: Junior standing.

ADVANCED COURSES FOR UNDERGRADUATES AND GRADUATES

3. Social Evolution.—Modes of social activity among people at different stages of progress: savage, barbarous, and civilized; family organization, practical arts, economic wants and institutions, origins of government and law, codes of morality, religions; inductions from such facts, as to the theory of social evolution and the method of progress. II; (3).

Professor HAYES

Prerequisite: Sociology 1.

[6. The Social Problems of the Urban Community.—II; (3). Not given in 1912-13. Professor Hayes

Prerequisite: Senior standing and Sociology 1.]

8. General Charities.—Evolution of modern organized philanthropy, public and private; causes and prevention of poverty; organization and management of charitable institutions. *I*; (3).

Dr. Todd

Prerequisite: Junior standing and Sociology I or Economics I.

9. Criminology.—Nature, causes, and treatment of the criminal; evolution of modern methods of criminal procedure and penology; recent experiments and tendencies. II; (3). Dr. Todd

Prerequisite: Senior standing.

10. Population.—Theories and policies of population; Malthus' Principle and its critics; problems in population of the United States; immigration, race-mixture, conditions affecting public health, deathrate, birth-rate, "race-suicide", marriage, divorce; selective influences at work on the "Population type". *I*; (3).

Dr. Todd

Prerequisite: Senior standing and Sociology I or Economics I.

11. Principles of Sociology.—Fundamental principles and main teachings of sociology, derived from a minute analysis and classification of the elements that make up the life of a people, types of change to which they are subject, and causes by which they are affected. I; (3).

Professor HAYES

Prerequisite: Senior standing.

12. The Labor Problem.—The same as Economics 12.

Prerequisite: Economics 1, 3; students who are taking sociology as a major and have had 6 hours in history, and Sociology 1, may be admitted without Economics 3.

[15. The Family.—Evolution of the family and marriage; education, moral, and political significance of the family at different stages of social development. II; (3). Not given in 1912-13.

Or. Todd

Prerequisite: Primarily for graduates, but approved seniors who have had Sociology I or equivalent may be admitted; reading knowledge of French or German desirable.]

21. Socialism and Social Reform.—The same as Economics 21. Prerequisite: Economics 1, 3; students who are taking sociology as a major and have had 6 hours in history, and Sociology 1, may be admitted without Economics 3.

26. Social Education.—Education as a factor in social progress; present day education policy and organization in the light of theoretical and applied sociology. *II*; (3). Dr. Todd

Prerequisite: Senior standing, and Sociology I or Psychology I or equivalent.

COURSES FOR GRADUATES

Graduate work in sociology presupposes training in the social sciences, at least in economics and history, and also in psychology. Candidates for the doctor's degree with sociology as the major subject will be expected to have taken some fundamental course in economics and in political science, such as Economics 101 or 122, and Political Science 102.

The graduate courses in this department are of two classes: Those of the first class deal with the principles of general sociology; these principles relate to the essential nature, methods of evolution, and types of determining causes, of customs, institutions, and the other social forms whether they serve economic, political or other purposes. The courses of the second class treat, in the light of the principles of general sociology, those practical social problems which lie outside the range of economics and politics.

The library has most of the standard works in general sociology by American, English, and European authorities, a collection of books on each of the various sociological problems, and an extensive list of periodicals. Special attention is given to ethnographic and anthropologic materials.

IOI. SOCIOLOGICAL METHOD.—The method of advancing the science of sociology; adaptability to sociological investigation of certain methods described in Pearson's Grammar of Science, Wundt's Methodenlehre, zweite abtheilung, Seignobos' La Méthode Historique

Appliquée aux Sciences Sociales, Bernheim's Historische Methode, Spencer's Study of Sociology, and Giddings' Inductive Sociology.

Three times a week; I. Professor HAYES

THE DEVELOPMENT OF SOCIOLOGY.—Readings in the works of writers who have contributed most to the development of sociology; discussions; supplementary lectures. Arranged in a cycle of three years: first year, authors whose works can be read in English; second year, German authors; third year, mainly French writers. (Second year given in 1912-13.) One session, two hours, each week; I, II.

Professor Hayes

150. SEMINAR.—Three to six hours a week; I, II.

Professor Hayes

SPANISH

(See ROMANCE LANGUAGES AND LITERATURE.)

VETERINARY SCIENCE

DONALD McIntosh, V.S., Professor

[2. VETERINARY MATERIA MEDICA.—All the agents used for the cure of disease and injury, and for the preservation of health among domestic animals. Lectures; text-books, inspection of specimens of drugs. *I*, *II*; (5). Not given in 1912-13.

Professor McIntosh]

4. Anatomy, Physiology, and Diseases of Domestic Animals.—The organs of mastication, digestion, respiration; circulation, and lymphatic system; the urinary organs; the skin. I_{i} (5).

Professor McIntosh

- 5. Anatomy, Physiology, and Diseases of Domestic Animals.—The nervous system, bones, joints, feet, eye, and generative organs; epizootic and contagious diseases; catarrhal fever; pyemia; septicaemia; rheumatism; tuberculosis; fistula of the withers; poll-evil; wounds; internal parasites. II; (5). Professor McIntosh
- 6. CLINIC.—The free clinic is held every Saturday morning from ten to twelve o'clock. Animals are brought to be examined, operated upon, and prescribed for. This class is of signal benefit to the student as he has the opportunity of seeing the cases and of assisting in the work. I, II; (1).

 Professor McIntosh

Prerequisite: Registration in Veterinary Science 4 and 5.

ZOOLOGY

(See also Entomology, Botany, and Physiology.)

HENRY BALDWIN WARD, Ph.D., Professor FRANK SMITH, A.M., Associate Professor CHARLES ZELENY, Ph.D., Associate Professor FREDERICK WALTON CARPENTER, Ph.D., Assistant Professor CHARLES CHRISTOPHER ADAMS. Ph.D., Associate ERNEST CARROLL FAUST. A.B., Research Assistant BESSIE ROSE GREEN. A.M., Assistant JOHN EARL GUTBERLET, A.M., Assistant HARLEY JONES VANCLEAVE, M.S., Assistant *MARGARET WALLACE TAGGART, M.S., Graduate Assistant PANZY LOUISE BARGER. B.S., A.M., Graduate Assistant ROYAL GLENN HALL, A.B., Graduate Assistant RALPH HARLAN LINKINS. A.B., Graduate Assistant HORACE WESLEY STUNKARD, B.S., Graduate Assistant JUNE MAUD ASHLEY, A.B., Graduate Assistant **ALICE DOROTHEA BROOKS, A.B., Graduate Assistant

Courses I and 2 constitute a general survey of the subject, involving a year's work, and form the best introduction to later work in zoology. In the second year, a student may choose as a line of work, either morphological, experimental, ecological, faunistic, or systematic courses. The courses on microscopical technique (3) and current literature (20) are of value in all lines of work. Medical students should take courses 3 and 6 in the second year. Those preparing to teach zoology in the high school will find field zoology (16, 17) and ecology (9) of especial value, and should not overlook the importance of a course in general entomology.

The equipment of the department includes the usual apparatus, microscopes, micromes, paraffin baths, demonstration material, and reagents. The various special laboratories are equipped with special apparatus and demonstration material in accordance with their particular needs. Provision is made for meeting such special demands as may arise in connection with individual work.

^{*} Resigned Nov. 1st, 1912. ** From Nov. 1st, 1912.

The University Museum contains series of mounted vertebrates. of Ziegler embryological models, and of alcoholic material in all groups: these are available as needed for either teaching or research. The collections and library of the Illinois State Laboratory of Natural History are freely accessible to advanced students. They are rich in that which pertains to fresh-water biology. The private library and collections of the head of the department, which contain much material on invertebrate morphology and on parasitism, are also placed at the disposal of graduate students.

COURSES FOR GRADUATES

I. GENERAL ZOOLOGY.—Animal biology; general principles of structure: function and inter-relation of animal forms; origin and development of animal life; the simpler and best-established generalizations in zoological theory. Lectures: laboratory; quiz work. I. or II; (5).

Professor WARD, Associate Professor ZELENY, Dr. ADAMS, and assistants

2. VERTEBRATE ZOOLOGY AND COMPARATIVE ANATOMY.—Classification of the Chordata: the early stages of vertebrate embryology: structure of vertebrate tissues; systems of organs considered in respect to their anatomy, function, ontogeny, and evolution in the vertebrate series: anatomical studies of selected types of the Chordata. Lectures; laboratory; quiz work. II; (5).

Assistant Professor Carpenter

Prerequisite: Zoology I.

16. FIELD ORNITHOLOGY.—The birds of the vicinity, Indentification: food relations: seasonal distribution; migration activities. (Students are advised to provide themselves with opera or field glasses.) Field work; lectures. II; (2).

Associate Professor SMITH

19. ADVANCED ORNITHOLOGY.—(Continuation of 16). Difficult groups of birds; economic and technical literature. I, II; (2 to 5).

Associate Professor Smith

Prerequisite: Zoology 16 or equivalent.

COURSES FOR GRADUATES AND UNDERGRADUATES

3. MICROSCOPICAL TECHNIQUE AND GENERAL VERTEBRATE EMBRYology.—Theory and practice of microscopical technique; vertebrate embryos in early stages of development; methods of fixation, embedding, section cutting, staining, and mounting; preparation of

embryological material for use in introductory embryology. Lectures; laboratory. I; (3).

Assistant Professor Carpenter
Prerequisite: Zoology I. 2.

6. Vertebrate Organogeny.—Development of the organs of the vertebrate body. Lectures; assigned readings in a text-book of human embryology; laboratory studies on embryos of the chick and pig. (A continuation of Course 3; for medical students and others.) II; (3).

Assistant Professor Carpenter

Prerequisite: Zoology 1, 2, 3.

9. Animal Ecology.—The relation of animals to their natural environment; processes of change in environment and their influence upon animal life; the local fauna and the conditions under which it lives; methods of observation, making notes, and collections. Insects, mollusks, reptiles, amphibians, and fishes. Field work; laboratory; assigned reading; reports. II; (5).

Dr. Adams

Prerequisite: One year of zoology or two years of university work, including Zoology 1.

II. Principles of Zoogeography.—The geographic distribution of animals, particularly the faunas of North America and of Illinois; the fauna in its relation to the complete environment (climate, physiography, geology, vegetation) and from the standpoint of its origin and its dynamic relations. Lectures; laboratory work on maps; field excursions. *I*; (3 or 5).

Dr. Adams

Prerequisite: As in Zoology 9.

13. Experimental Embryology and Regeneration.—The factors concerned in individual development. Lectures; demonstrations. I;
 (2). Associate Professor Zeleny

Prerequisite: Two years of university work, including one year in zoological courses.

13a. Experimental Embryology and Regeneration.—(Laboratory.)—Individual work on definite problems. I, II; (1 to 5).

Associate Professor Zeleny

Prerequisite: Two years of university work, including one year in zoological courses.

15. Variation and Heredity.—The factors of organic evolution; the principles of animal breeding; eugenics. Lectures and demonstrations. II; (2).

Associate Professor Zeleny

Prerequisite: Two years of university work, including one year in zoological courses.

15a. VARIATION AND HEREDITY.—(Laboratory.)—Individual work on definite problems. I. II; (1 to 5).

Associate Professor Zeleny

Prerequisite: Two years of university work, including one year in zoological courses.

17. FIELD ZOOLOGY.—The animal life of a restricted locality. Collection, preservation, and identification of various kinds of animals; observations on the habits and life histories of selected forms. I; (3).

Associate Professor Smith

Prerequisite: One year of zoology, or two years of university

work, including Zoology 1.

18. Advanced Field Zoology.—More restricted problems in connection with the local fauna; taxonomic or distributional problems. (A continuation of courses 16 and 17.) I, II; (3 to 5).

Associate Professor Smith

Prerequisite: Zoology 17.

7. Structure of the Central Nervous System of Vertebrates.—The more important anatomical and histological characters of the vertebrate brain and spinal cord; the grouping of neurones into functional systems with special reference to the higher vertebrates, including man. Lectures; demonstrations. I; (2).

Assistant Professor Carpenter

Prerequisite: One year of zoology.

29. Advanced Animal Ecology.—Special problems in ecology, distribution, and faunas, with reference to the interpretation of the relation between animals and their environments. Conferences; laboratory; field work. *I, II;* (2 to 5).

Dr. Adams

Prerequisite: Two years of university work, including Zoology I and 9 or II.

21. Introduction to Zoological Research.—Investigation of topics, usually repeating the work of earlier investigators; the morphology, life history, or reciprocal relations of invertebrate forms. Laboratory; conferences; assigned reading. *I, II;* (2 to 5).

Professor WARD

Prerequisite: One year in zoological courses.

20. Current Literature.—Meetings of the instructors and advanced students of the department for the presentation and discussion of the results of recent zoological investigation. (Open to

all students of zoology; should be taken by those intending to graduate with a thesis.) I, II; (1).

Associate Professor Zeleny, Assistant Professor Carpenter Prerequisite: Three years of university work, including one year in zoology.

8. Thesis Investigation.—Individual work on assigned topics. I, II; (5).

Professor Ward, Associate Professor Smith, Associate Professor Zeleny, Assistant Professor Carpenter, Dr. Adams Prerequisite: Two years in zoological courses.

COURSES FOR GRADUATES ONLY

Two years of undergraduate work in zoology are ordinarily presupposed for entering upon graduate study in the department. When the work is chosen for a minor the courses listed for graduates and undergraduates, to be acceptable, must be preceded by at least one full year's undergraduate work in zoology. Work done at other institutions will be valued on conference with the head of the department.

- 103. HISTOLOGY OF THE NERVOUS SYSTEM.—The nervous elements of invertebrates and vertebrates: their form, composition, and topographical relations; the evidence for and against the neurone theory of nervous structure. Conferences; assigned readings; laboratory. Twice a week; I, II.

 Assistant Professor CARPENTER
- 107. Parasitology.—Structure and life history of animal parasites; their relations to disease; origin and biological significance of parasitism. Conferences; assigned readings; demonstrations. Twice a week; I, II. [Given in 1912-13 and in alternate years.]

Professor WARD

- II3. Experimental Zoology.—Assigned problems in experimental embryology, regeneration, variation, and heredity. Two to five times a week; I, II.

 Associate Professor Zeleny
- 117. FAUNISTIC ZOOLOGY.—Problems in taxonomy, distribution, and ecology; field work, conference, and lectures. This work is favored by a natural history survey of the State now in progress at the University; students have the advantage of the collections, library, apparatus, and operations of this survey. Twice a week; I, II.

 Associate Professor Smith, Dr. Adams

- 121. INDIVIDUAL RESEARCH COURSES.-
- (a) Zoological problems. Professor WARD

(b) Faunistic and systematic zoology.

Associate Professor Sмітн

- (c) Animal Ecology and Zoogeography. Dr. Adams
- (d) Vertebrate Embryology. Assistant Professor Carpenter
- (e) Structure and Development of the Nervous System.

Assistant Professor CARPENTER

(f) Experimental Zoology. Associate Professor Zeleny

[127. Theories of Animal Phylogeny.—Relations of various groups of animals; significance of so-called intermediate forms; study of invertebrate larval forms and of theories of descent based on them. Lectures; assigned readings; laboratory. *I, II.* Given in 1913-14 and in alternate years.

Professor Ward

PART IV AUXILIARY SCIENTIFIC BUREAUS



THE AGRICULTURAL EXPERI-MENT STATION

EDMUND JANES JAMES, Ph.D., LL.D., PRESIDENT

STAFF

EUGENE DAVENPORT, M.Agr., LL.D., Director
CYRIL GEORGE HOPKINS, Ph.D., Vice-Director
STEPHEN ALFRED FORBES, Ph.D., Consulting Entomologist
Donald McIntosh, V.S., Consulting Veterinarian
HENRY LEWIS RIETZ, Ph.D., Statistician
BURT EARDLEY POWELL, Ph.D., Editor Agricultural Press Bulletins
Anna Cushman Glover, Assistant Secretary

CYRIL GEORGE HOPKINS, Ph.D., Chief, Agronomy and Chemistry

In Agronomy

JEREMIAH GEORGE MOSIER, B.S., Chief, Soil Physics Louie Henrie Smith. Ph.D., Chief, Plant Breeding JAMES HARVEY PETTIT. Ph.D., Chief. Soil Fertility LEONARD HEGNAUER, B.S., Chief, Crop Production JEROME EDWARD READHIMER, B. S., Superintendent Soil Experiment Fields, with rank of Assistant Professor *WILLIAM GEORGE ECKHARDT, B.S., Associate, Soil Fertility AXEL FERDINAND GUSTAFSON, M.S., Associate, Soil Physics ERNEST VAN ALSTINE, B.S., Associate, Chemistry JOSEPH PAUL AUMER. B.S., Associate, Chemistry ORA STANLEY FISHER, B.S., Associate, Soil Fertility CLARENCE CHESTER LOGAN, B.S., Associate, Soils Extension JAY BOARDMAN PARK, M.S., Associate, Plant Breeding SIDNEY VIEL HOLT, B.S., Associate, Soil Physics HAROLD WILSON STEWART, B.S., Associate, Soil Physics HENRY CLYDE WHEELER, B.S., Associate, Soil Physics GERTRUDE NIEDERMAN, B.S., Assistant, Chemistry JOHN EZRA WHITCHURCH, B.S., Associate, Soil Fertility EZEKIEL EDWARD HOSKINS. B.S., Associate, Soil Fertility

^{*}On leave.

WILLIAM LEONIDOS BURLISON, M.S., Associate, Crop Production WARD HANSON SACHS, B.S., First Assistant, Chemistry WALTER BYRON GERNERT, Ph.D., First Assistant, Plant Breeding ALBERT LEMUEL WHITING, Ph.D., First Assistant, Soil Biology FREDERICK CHARLES BAUER, B.S., First Assistant, Soil Fertility FREDERICK MARTIN WILLIAM WASCHER, B.S., Assistant, Soil Physics

Forrest Addison Fisher, B.S., Assistant, Soil Physics
Frank William Garrett, B.S., Assistant, Soil Fertility
Wilbur Roy Leighty, B.S., Assistant, Chemistry
Orr Milton Allyn, B.S., Assistant, Crop Production
Robert William Dickenson, B.S., Assistant, Soil Physics
Clifford E Wheelock, B.S., Assistant, Soil Physics
John Woodard, B.S., Assistant, Soil Physics
Oran Keller, B.S., Assistant, Chemistry
Leo Ross Binding, B.S., Assistant, Chemistry

In Animal Husbandry

HERBERT WINDSOR MUMFORD, B.S., Chief
HARRY SANDS GRINDLEY, D.Sc., Chief, Animal Husbandry
LOUIS DIXON HALL, M.S., Assistant Chief, Animal Husbandry
WALTER CASTELLA COFFEY, M.S., Assistant Chief, Sheep Husbandry

ARTHUR DONALDSON EMMETT, A.M., Assistant Chief, Animal Nutrition

EDWIN STANTON GOOD, M.S., Assistant Chief, Swine Husbandry John A Detlefsen, D.Sc., Assistant Chief, Genetics
Henry Perly Rusk, M.S.A., First Assistant, Beef Cattle
James Lloyd Edmonds, B.S., First Assistant, Horse Husbandry
Harold Hanson Mitchell, B. S., Assistant, Chemistry
Walter Edward Joseph, Ph.D., Assistant, Animal Husbandry
William Herschel Smith, M.S., Assistant, Animal Husbandry
Sleeter Bull, M.S., Assistant, Animal Nutrition
Leonora Perry, A.B., B.L.S., Editorial Assistant
Walter F Handschin, Assistant, Animal Husbandry
John Jonathan Yoke, Assistant, Animal Husbandry
Virgil Augustus Place, B.S., Assistant, Animal Husbandry
Wilbur Jerome Carmichael, Assistant, Animal Husbandry
Vilbur Jerome Carmichael, Assistant, Animal Husbandry
John Richard Wells, B.S., Assistant, Animal Husbandry

In Dairy Husbandry

WILBUR JOHN FRASER, M.S., Chief, Dairy Husbandry
NELSON WILLIAM HEPBURN, M.S., First Assistant, Dairy Manufactures

Walter Lee Gaines, M.S., Associate, Dairy Husbandry Royden Earl Brand, M.S., Associate, Dairy Husbandry Horatio Newton Parker, First Assistant, Municipal and Sanitary Dairying

JESSE MELANGTHON BARNHART, M.S., Assistant, Chemistry LEROY LANG, M.S., Assistant, Dairy Manufactures WILLIAM TRUMAN CRANDALL, B.S., Assistant, Milk Production RAY STILLMAN HULCE, B.S., Assistant, Milk Production OLIVER ARNOLD KELLER, B.S., Assistant, Dairy Manufactures HARRISON AUGUST RUEHE, B.S., Assistant, Dairy Manufactures FRANK ASHMORE PEARSON, B.S., Assistant, Dairy Husbandry LESLIE M WAKELEY, B.S., Assistant, Dairy Husbandry WILLIAM FIRTH WELLS, B.S., Assistant, Municipal Dairying

In Horticulture

JOSEPH CULLEN BLAIR, M.S.A., Chief CHARLES SPENCER CRANDALL, M.S., Chief, Plant Breeding JOHN WILLIAM LLOYD, M.S.A., Chief, Olericulture HERMAN BERNARD DORNER, B.S., Assistant Chief, Floriculture BETHEL STEWART PICKETT, M.S., Assistant Chief, Pomology OSCAR S WATKINS, B.S., Assistant Chemist, Horticulture ERNEST WINFIELD BAILEY, M.S., Assistant, Plant Breeding ARNO H NEHRLING, Assistant, Floriculture WARREN ALBERT RUTH, M.S., Assistant, Horticultural Chemistry CHARLES ELMER DURST, B.S., Assistant, Olericulture THOMAS BREGGER, B.S., Assistant, Plant Breeding LAWRENCE EARL FOGLESONG, B.S., Assistant, Pomology ALFRED JOSEPH GUNDERSON, B.S., Assistant, Pomology SIMEON JAMES BOLE, A.M., Assistant, Plant Breeding FRED WEAVER MUNCIE, A.B., Assistant, Floriculture GEORGE L PELTIER, A.M., Assistant, Floricultural Pathology JOHN JOSEPH GARDNER, B.S.A., Assistant, Pomology JAMES HUTCHINSON, Assistant, Floriculture

In Botany

JAMES THEOPHILUS BARRETT, Ph.D., Chief Assistant, Botany

By an act approved March 2, 1887, the national government appropriated \$15,000 per annum to each state for the purpose of establishing and maintaining, in connection with the colleges founded upon the congressional act of 1862, agricultural experiment stations, "to aid in acquiring and diffusing among the people of the United States useful and practical information on subjects connected with agriculture, and to promote scientific investigation and experiment respecting the principles and applications of agricultural science." Under this provision the Agricultural Experiment Station for Illinois was founded in 1888 and placed under the direction of the Trustees of the University; a part of the University farm, with buildings, was assigned for its use.

The Federal grants to the Station have been supplemented by State appropriations, until its revenues have become larger than those of any other similar institution in the world.

Investigations are conducted in the growing and marketing of orchard fruits, the methods of production of meats and of dairy goods, the principles of animal breeding and of nutrition, and the improvement and the economic production of crops. All the principal types of soil of the State are being studied in the laboratory under glass and in the field. A soil survey is in progress which when finished will map and describe the soil of every farm of the State down to an area of ten acres. Twenty to thirty fields and orchards are rented in various portions of the State for the study of local problems, and assistants are constantly on the road for the conduct of experiments or to give instruction to producer or consumer. The results of investigation are published in bulletins, which are issued in editions of 50,000 and distributed free of charge.

Much of this work is of interest to students, especially of graduate grade, and it is freely available for this purpose, so far as is consistent with the interests of the Station.

THE ENGINEERING EXPERIMENT STATION

EDMUND JANES JAMES, Ph.D., LL.D., PRESIDENT

STAFF

WILLIAM FREEMAN MYRICK GOSS, M.S., D.Eng., Director TRYGVE D YENSEN, M.S., Administrative Assistant THE HEADS OF THE DEPARTMENTS IN THE COLLEGE OF ENGINEERING

SPECIAL INVESTIGATORS

HERBERT FISHER MOORE, M.M.E., Assistant Professor in the Department of Theoretical and Applied Mechanics

Duff Andrew Abrams, C.E., Associate in the Department of Theoretical and Applied Mechanics

Franklin Wales Marquis, M.E., Associate in the Department of Railway Engineering

DAVID FORD McFARLAND, A.M., M.S., Ph.D., First Assistant in the Department of Chemistry

WILLIS APPLEFORD SLATER, M.S., C.E., First Assistant in the Department of Theoretical and Applied Mechanics

Trygve D Yensen, M.S., Assistant in the Department of Electrical Engineering

JOHN NICHOLAS VEDDER, A.M., Assistant in the Department of Mechanical Engineering

HAROLD HOUGHTON DUNN, B.S., Assistant in the Department of Railway Engineering

Alonzo Plumsted Kratz, M.S., Assistant in the Department of Mechanical Engineering

RESEARCH FELLOWS

WILLARD CLARKE EELLS, B.S., Theoretical and Applied Mechanics HAROLD ALLEN HOUSTON, B.S., Railway Engineering MAYNE SEGUINE MASON, B.S., Electrical Engineering WILLIAM EARL MOSHER, M.E., Mechanical Engineering HARRY FIELDING HADLEY, A.M., Chemistry RUDOLPH McDermet, B.S., Electrical Engineering

GEORGE ALFRED MANEY, C.E., Theoretical and Applied Mechanics JOHN WILLIAM STOKES, B.S., Electrical Engineering HOWARD RICE THOMAS, C.E., Theoretical and Applied Mechanics WALTER JACOB WOHLENBERG, B.S., Mechanical Engineering

The Engineering Experiment Station was established by action of the Board of Trustees, December 8, 1903. Its purposes are the stimulation and elevation of engineering education, and the study of problems of special importance to professional engineers and to the manufacturing, railway, mining, and industrial interests of the State and the country. The practical nature of the investigations and their adaptation to present-day needs are assured by means of conferences with committees of the leaders of the State's industrial activities.

The control of the Station is vested in the heads of the several departments of the College of Engineering. These constitute the Station Staff, and, with the Director, determine the character and extent of the investigations to be undertaken.

Up to the present time, sixty bulletins of value to engineering science have been published. The experiments have related chiefly to tests of high-speed tool steels; the resistance of tubes to collapse; the holding power of railroad spikes; the effect of scale on heat transmission; roof trusses; base and bearing plates in columns and beams: stresses in chain links: extensions of the Dewey decimal system of classification; tests of electric lamps; lighting country homes by private electric plants; street lighting; high steam pressures in locomotive service; rate of formation of carbon monoxide in gas producers; fuel tests; the weathering of coal and the spontaneous combustion of coal: thermal conductivity of fireclay: heat transmission: freight train resistance: tests of a suction gas producer: tests of concrete: reinforced concrete beams and columns; tests of cast-iron and reinforced concrete culvert pipe; tests of brick columns and terra cotta block columns: tests of timber beams; tests of built-up columns under load; tests to determine the resistance to flow through locomotive water columns; tests of nickel-steel riveted joints; strength of rolled zinc; inductance of coils; mechanical stresses in transmission lines; starting currents of transformers; superheated steam in locomotive service; a new analysis of the cylinder performance of reciprocating engines: effects of cold weather upon train resistance and tonnage rating; and coking of coal at low temperatures.

THE STATE LABORATORY OF NATURAL HISTORY

EDMUND JANES JAMES, Ph.D., LL.D., PRESIDENT

STAFF

Stephen Alfred Forbes, Ph.D., LL.D., Director
Charles Arthur Hart, Systematic Entomologist
Mary Jane Snyder, Secretary
Robert Earl Richardson, A.M., Assistant in charge of Biological
Station

In 1885 the General Assembly passed a bill transferring the State Laboratory of Natural History from the Illinois State Normal University to the University of Illinois. This laboratory was created for the purpose of making a natural history survey of the State, the results of which should be published in a series of bulletins and reports; and for the allied purpose of furnishing specimens illustrative of the flora and fauna of the State to the public schools and to the State museum. For these purposes direct appropriations are made by the legislature from session to session. Material of all classes has been collected in all part of the State, field observations and experiments have been conducted, extending over many years, and twelve volumes have been published in the form of bulletins and final reports.

The principal problem upon which the work of the survey is at present concentrated is that of the effect upon our aquatic biology of a pollution of our natural waters.

THE STATE ENTOMOLOGIST'S OFFICE

STAFF

STEPHEN ALFRED FORBES, Ph.D., LL.D., State Entomologist
CHARLES ARTHUR HART, Systematic Entomologist
WESLEY PILLSBURY FLINT, Assistant for Central Illinois
LINDLEY MALCOLM SMITH, B.S., Assistant for Southern Illinois
DAVID KENT MACMILLAN, B.S., Assistant for Northern Illinois
PRESSLEY ADAMS GLENN, A.M., Chief Horticultural Inspector
ROBERT DOUGLAS GLASGOW, A.B., Special Assistant
S FRED PRINCE, Illustrator

The work of the State Entomologist's Office has been done at the University of Illinois since January, 1885; by legislative enactment in 1899 it was permanently established at the University, the trustees of which are required by that act to provide for the Entomologist and his assistants such office and laboratory rooms as may be necessary to the performance of their duties.

It is the duty of this officer to investigate all insects dangerous to any valuable property or dangerous to the public health, and to conduct experiments for the control of injuries to persons or property by insects, publishing the results of his researches biennially in his official report. He is required also to inspect and certify annually all Illinois nurseries, and to maintain a general supervision of the horticultural property of the State with respect to its infestation by dangerous insects and its infection with contagious plant disease.

Twenty-seven reports have now been published by the Entomologist, fourteen of them since the transfer of his office to the University.

THE STATE WATER SURVEY

EDMUND JANES JAMES, Ph.D., LL.D., PRESIDENT STAFF

Edward Bartow, Ph.D., Director
Otto Rahn, Ph.D., Consulting Bacteriologist
Samuel Wilson Parr, M.S., Consulting Chemist
Arthur Newell Taleot, C.E., Consulting Engineer
Paul Hansen, B.S., Engineer
Wilfred Francis Langelier, M.S., Inspector
Harry Peach Corson, M.S., Chemist
Ralph Hilscher, B.S., Assistant Engineer
Walter G Stromquist, A.B., B.S., Assistant Engineer
Milford Everett Hinds, B.S., Assistant Chemist
Fred Wilbur Tanner, B.S., Assistant Bacteriologist
Edward Emil Hollmann, B.S., Assistant Chemist
Floyd William Mohlmann, B.S., Assistant Chemist
Harry Foster Ferguson, Assistant Engineer

A chemical survey of the waters of the State was begun in the latter part of September, 1895. In 1897 the legislature authorized the continuance of the work and directed the Trustees of the University to establish a chemical and biological survey of the waters of the State. In 1911 the legislature imposed additional duties on the State Water Survey, authorizing the Water Survey to employ field men to inspect water supplies, water-sheds, etc., and to make, free of charge, sanitary examinations of water for citizens of Illinois, and made increased appropriations. The purpose of the Survey is to collect facts and data concerning the water supplies of the State; to make such chemical and biological examination and analyses as shall serve to demonstrate their sanitary condition: to determine standards of purity of drinking waters for the various sections of the State; to inspect water sheds and to make any investigations that will show best how to obtain and conserve an adequate supply of pure water for domestic and manufacturing purposes in every part of the State.

The Survey is a division of the department of chemistry of the University of Illinois, and special laboratories are equipped in the Chemistry Building for conducting the work. The engineering division is located in Engineering Hall.

THE STATE GEOLOGICAL SURVEY

COMMISSION

GOVERNOR CHARLES S. DENEEN, Chairman PROFESSOR T. C. CHAMBERLAIN, Vice-Chairman PRESIDENT EDMUND JANES JAMES, Secretary

STAFF

Frank Walbridge DeWolf, Director, Urbana

EDWARD BARTOW, Consulting Chemist in Water Analysis, University of Illinois, Urbana

ULYSSES S GRANT, Consulting Geologist in Lead and Zinc Studies, Northwestern University, Evanston

SAMUEL WILSON PARR, Consulting Chemist in Coal Investigations, University of Illinois, Urbana

CHARLES WESLEY ROLFE, Consulting Geologist in Clay Investigations, University of Illinois, Urbana

ALBERT VICTOR BLEININGER, Consulting Ceramist, U. S. Bureau of Standards, Pittsburgh, Pa.

ROLLIN D SALISBURY, Consulting Geologist in Preparation of Educational Series, University of Chicago, Chicago

FRED HALL KAY, Assistant State Geologist, Urbana

THOMAS EDMUND SAVAGE, Geologist, University of Illinois, Urbana

STUART WELLER, Geologist, University of Chicago, Chicago

GILBERT H CADY, Assistant Geologist, Urbana

RAYMOND SILLIMAN BLATCHLEY, Assistant Geologist, Urbana

E Wesley Shaw, Assistant Geologist in Co-operative Surveys, Urbana, Ill., and Washington, D. C.

JUSTA M LINDGREN, A.M., Chemist, Urbana

WILLIAM HENRY HERRON, Geographer in charge of Topographical Surveys, Urbana, Ill., and Washington, D. C.

The Forty-fourth General Assembly passed an act, in force July 1, 1905, providing for the establishment at the University of Illinois of the State Geological Survey. The Survey is under the control of a Commission, of which the President of the University is an exofficio member.

The purpose of the Survey is primarily the study and exploration

of the mineral resources of Illinois. Field parties are organized for the investigation of oil, clay, coal, stone, artesian water, cement materials, and road materials, and for general scientific investigations. The Survey is charged also with the duty of making a complete topographical and geological survey of the State. The topographical surveys are now being carried on in cooperation with the United States Geological Survey. These will lead to the publication of a series of bulletins and maps, eventually covering the entire State.

The Forty-fifth General Assembly further charged the Commission with the duty of making surveys and studies of lands subject to overflow, with a view to their reclamation. Work has been carried on in co-operation with the Rivers and Lakes Commission, the United States Geological Survey, and the United States Department of Agriculture, along the Sangamon, Kankaskia, Big Muddy, Little Wabash, Embarrass, Spoon, and Saline rivers. Reports have been issued on the Little Wabash and the Kaskaskia.

The laboratory work is done in connection with various department laboratories of the University. The equipment includes a working library, maps, and a growing collection, illustrating the geological and the economical resources of the State. Sixteen bulletins and a large number of maps have been published. Many temporary assistants besides the regular corps are employed each summer.

Under an agreement between the State Geological Survey and the College of Engineering on the one hand, and the United States Bureau of Mines on the other, a branch station has been located at Urbana for the demonstration of modern methods in mine-rescue work, and for the study of mining methods and mine wastes in Illinois. The station is equipped with breathing and resuscitation apparatus, electric safety lamps, and other devices by means of which it is possible to enter mines which may be filled with dangerous gases. The station is maintained, not as a permanent feature, but in an effort to demonstrate to the operators, miners, and mine inspectors the value of the apparatus and to encourage its general installation in the State.

A similar agreement by the above-named parties provides for a co-operative investigation of the Illinois coal mining industry. The Forty-seventh General Assembly made appropriations to carry on the work for two years See page 435.

THE BOARD OF EXAMINERS IN ACCOUNTANCY

Edmund Janes James, Ph.D., LL.D., President

BOARD OF EXAMINERS

W. E. SEATREE, C.P.A., Chicago JOHN ALEXANDER COOPER, C.P.A., Chicago MARQUIS EATON, Chicago

UNIVERSITY COMMITTEE

DAVID KINLEY, Chairman M. H. ROBINSON, Secretary CHARLES MAXWELL McCONN

By a law passed in 1903 the State University is made an examining board of applicants for certificates as certified public accountants. To carry out the provisions of the law the Board of Trustees have appointed a board of three examiners to prepare, conduct, and grade examinations, and a University committee to conduct the routine work. Under the law one examination must be held each year in May, but examinations have been held also in November or December of each year in which there were a sufficient number of applicants. All the examinations thus far given have been held in the city of Chicago.

Applicants for the certificate of Certified Public Accountant are required to pass examinations in theory of accounts, commercial law, auditing, and practical accounting.

CO-OPERATIVE INVESTIGATION OF ILLINOIS COAL PROBLEMS AND MINE RESCUE STATION

EDMUND JANES JAMES, Ph.D., LL.D., PRESIDENT

STAFF

College of Engineering-

WILLIAM FREEMAN MYRICK GOSS, M.S., D.Eng., Dean

HARRY HARKNESS STOEK, B.S., E.M., Professor of Mining Enginneering

Stephen Osgood Andros, A.B., B.S., E.M., Mining Engineer and Field Assistant

Special Mining Engineers and Field Samplers

State Geological Survey-

Frank Walbridge DeWolf, B.S., Director, State Geological Survey

SAMUEL W. PARR, M.S., Consulting Chemist

FRED HALL KAY, B.S., Assistant State Geologist

KESSACK DUKE WHITE, B.E.M., Assistant Geologist

JUSTA M. LINDGREN, A.M., Chemist

Special Geologists and Field Samplers

United States Bureau of Mines-

JOSEPH AUSTIN HOLMES, B.S., D.Sc., LL.D., Director, United States Bureau of Mines

ROBERT Y. WILLIAMS, A.B., E.M., Mining Engineer, U. S. Bureau of Mines, Urbana, Illinois

JAMES M. WEBB, Foreman, Urbana Mine Rescue Station

JOHN J. RUTLEDGE, E.M., Ph.D., Mining Engineer, studying the use of explosives

NELSON HORATIO DARTON, Geologist, studying occurences of gases in coal mines

Louis A. Scholl, B.S., Chemist, studying the explosibility of coal dust

The Department of Mining Engineering of the University of Illinois, the State Geological Survey, and the United States Bureau of Mines are co-operating in the investigation of some of the problems conected with the mining of coal in the State of Illinois, under authority granted by the Forty-seventh General Assembly, for a period of two years.

This co-operative work is constructive as well as statistical, based upon accurate data and taking account of all existing conditions, to enable the operators and miners of the State to produce coal more safely, more cheaply, and with less waste.

A force of trained mining engineers, geologists, and chemists has been placed at the disposal of the coal industry of Illinois.

A Mine Explosion and Mine Rescue Station is maintained in Urbana by the United States, in co-operation with the State Geological Survey and the Department of Mining Engineering of the University of Illinois.

The purpose of this station is to interest all connected with the mining industry in the use of breathing and resuscitation apparatus in conection with rescue work in mines, as an aid in fighting mine fires, and in the opening of mines which have been sealed on account of fires. The station not only gives demonstrations, but undertakes to train men in the use of such apparatus, the service being rendered gratuitously, and, as far as possible, to all interested in the subject.

PART V LIST OF STUDENTS, ETC.

(1912 - 1913)



LIST OF STUDENTS

THE GRADUATE SCHOOL

(SS)

Abe, Mikishi B.S. (Kogaku-Tokugyoshi) 1905 (SS)* Ichinoseki, Japan Theoretical and Applied Me-Ackert, James Edward A.B., 1909 Adler, Frederick Henry A.B. (Ohio State Univ.) 1909 A.M., 1911 Allen, Chester Harmon A.B. (Lawrence Coll.) 1912 †Allison, Harry Orson B.S., 1906 †Anderson, Clair Elmore B.S., 1911 July Anderson, Isbella (Work for A.B. completed)
Apgar, Leo Mahlon
B.S., 1912
Ashley, June Maud A.B. (Univ. Colorado) 1912 Atwell, Ruth Sarah B.S. (Northwestern Univ.) 1911 ‡Austin, Clem C B.S., 1907 Bagley, Glen David B.S., 1912 †Bailey, Margaret Lewis A.B. (Cornell Univ.) 1903 A.M., 1910 Ph.D., 1912 Bair, William Harry B.S. (Ohio Northern Univ.) 1908 Baker, Robert Earl A.B. (Univ. Oklahoma) 1912

Barger, Panzy Louise
B.S. (Tarkio Coll.) 1911

A.M., 1912

Barlow, Bronson
B.S. (Michigan Agr'l. Coll.) 1902 B.S. (Michigan Agr. Coll.) 1902
Barto, Philip Stephan
A.B., 1906; A.M., 1910
Beattie, George Wilson
A.B. (Ripon Coll.) 1901
Becker, Albert J
B.S., M.E., (Univ. Michigan) 1903 1907

Dixon Fellow in Zoology Chicago Fellow in German Appleton, Wisconsin Organic Chemistry Alpha Animal Husbandry Sumner Hill Electrical Engineering Prairie du Rocher Elgin Electrical Engineering Boulder, Colo. Zoology Evanston Botany Chicago Mechanical Engineering Elgin Scholar in Electrical Engineer-Wellsboro, Pa.

chanics

Travelling Fellow in German Canton Physics Norman, Oklahoma Chemistry Tarkio. Mo.

Greenville, Mich. Bacteriology (SS) Champaign

Zoology

German Literature South Hartford, N. Y. SS

Education SS Grand Forks, N. D. Theoretical and Applied Mechanics Urbana Chemistry

SS Urbana History

Bell, James Edgar B.S. (Univ. Chicago) 1905 Belting, Paul Everett

A.B., 1912

^{*}Attendance during both the Summer Session of 1912 and the regular session of 1912-13 is indicated by SS in parenthesis; during the Summer Session only, by SS. †On leave of absence.

[‡]Candidate for professional degree in engineering.

Biddle, Harry Clarence A.B. (Wabash Coll.) 1909 A.M. (Ohio State Univ.) 1912 Biester, Alice Biester, Ance A.B., 1912 Birney, Thomas Milton A.B., 1911 Block, Walter Robert B.S., 1907

Bole, Simeon James A.B. (Univ. Michigan) 1906

A.M., 1912 Boomsliter, George Paul B.S. (Michigan Agr. Coll.) 1906 Brigham, Reed O'Shea B.S. (Ohio State Univ.) 1912 Brooks, Alice Dorothea

A.B. (Mount Holyoke Coll.) 1912 Brown, Hugh Alexander

B.S., 1911

B.S., 1911
Brown, Robert Wesley
B.S., (Northwestern Univ.) 1911
Brumfiel, Daniel Milton
A.B. (Lombard Coll.) 1912
Brush, Elizabeth Parnham

A.B. (Smith Coll.) 1909 A.M., 1912

A.M., 1912
Bryant, John Myron
B.S., E.E. (Worcester Poly. Inst.)
1901, 1909
M.S., 1911
Buchen, Walther Albert
A.B. (Univ. Wisconsin) 1911
Burlison, William Leonidos
B.S. (Univ. Oklahoma) 1905
M.S., 1908
Burns, Iosephine Elizabeth

Burns, Josephine Elizabeth
A.B., 1909, A.M., 1911
*Burt, Henry Jackson
B.S., 1896
Burton, Lawrence Vreeland
B.S., 1911

Buyers, Archie Stanton B.S., 1908

Carmichael, Berton Eugene B.S., 1905

Carscallen, George Ernest A.B. (Wabash Coll.) 1906 A.M., 1910

Case, Harold Clayton M B.S., 1912 Chang, Luan

Graduate Tangshan Coll., China

Chang, Vun-din Chinzun B.S., 1912 Chester, Ann A.B., 1905 Chu, Vee Gih

Chu, Vee Gili (Work for B.S. completed) †Clark, Darwin Orlando A.B. (Drury Coll.) 1896

A.M., 1909

SS

Physiological Chemistry Garden Prairie Scholar in Household Science

SS Macomb Education Champaign Agronomy Champaign

Urbana

Education Grand Haven, Mich. Civil Engineering Toledo, Ohio Botany Haverhill, Mass. Zoology Urbana Electrical Engineering Chicago Scholar in Geology Connersville, Ind. Scholar in Entomology Boulder, Colo.

History Urbana

Electrical Engineering (SS) Montello, Wis.

English (SS) Champaign

> Agronomy Macomb Fellowship in Mathematics Wilmette Civil Engineering Aurora Physiological Chemistry Sterling Mechanical Engineering Wooster, Ohio Animal Husbandry Frankfort, Ind.

Mathematics Urbana Animal Husbandry Canton, China Civil Engineering Shanghai, China Agronomy Champaign English Shanghai, China Chemistry Carthage, Mo.

History

^{*}Candidate for professional degree in engineering. †On leave of absence.

Clark, Fred Emerson A.B. (Albion Coll.) 1912 Clark, Karl Adolf A.B., A.M. (McMaster Univ.) 1910, 1912 Cobb, Margaret Vara
A.B. (Radcliffe Coll.) 1910
*Collins, Edgar Francis *Collins, Edgar Francis
B.S., 1898
Collins, Vida Lucile
A.B. (Univ. Michigan) 1907
A.M., 1910
Conel, Jesse Leroy
A.B. (James Millikin Univ.) 1912
Corson, Harry Peach
B.S., (New Hampshire Coll.) 1910,
M.S., 1912
Cort, William Walter
A.B. (Colorado Coll.) 1909 SS Cort, William Walter
A.B. (Colorado Coll.) 1909
A.M., 1911
Cox, Sidney Hayes
A.B. (Bates Coll.) 1911
Crandall, William Truman
B.S. (Milton Coll.) 1906
B.S.A. (Univ. Wisconsin) 1909
Cravens, Lucile Starr
A.B. (Lombard Coll.) 1909
A.M., 1911
Cunningham, Harrison Edward Cunningham, Harrison Edward A.B. (Univ. Vermont) 1904 Davis, George William B.S. (Missouri Valley Coll.) 1911 Davis, Lloyd Hayes
A.B. (Wabash Coll.) 1911
Davis, Raymond Earl
B.S. (Univ. Maine) 1911
Davisson, Bert Stover A.B. (Indiana Univ.) 1911 Deffendall, Prentice Hoover A.B. (DePauw Univ.) 1906 A.B. (Deraw Onto.) 1906
Dent, John Adlum
M.E. (Lehigh Univ.) 1905
Dibell, Mabel Elizabeth
A.B. (Western Coll.) 1910
Ditchy, Jay Karl
A.B. (Univ. Michigan) 1911
Douthity Herman Douthitt, Herman
A.B. (Univ. Oklahoma) 1911 A.B. (Oberlin Coll.) 1911
Dowell, Edward Samuel
A.B. (Oberlin Coll.) 1910
Dowrie, George William
A.B. (Lake Forest Coll.) 1911 A.B. (Lake Forest Coll.) 1911
A.M. (Univ. Chicago) 1907

Dutcher, Raymond Adams
B.S., M.S. (So. Dakota State Coll.) 7
1907, 1910
A.M. (Univ. Missouri) 1912

Edwards, Forrest Glen
A.B. (Lawhard Coll.) 1907

Albion, Mich. Scholar in Economics Toronto, Ont.

Chemistry Falls Church, Va. Fellow in Zoology Schenectady, N. Y. Electrical Engineering Bear Lake, Mich.

English Decatur Scholar in Zoology Laconia, N. H.

Chemistry Colorado Springs, Colo.

Zoology Poland, N. Y. Scholar in English Urbana

Dairy Husbandry Kansas City, Mo.

Burlington, Vt.

English SS Marshall, Mo. Physiological Chemistry (SS) Crawfordsville, Ind.
Animal Chemistry
Windsor Mills, Quebec
Civil Engineering
New Richmond, Ind. Chemistry

Latin

SS Taylorville English Champaign Mechanical Engineering Wolcott, Ind. Botany Cleveland, Ohio French

SS Sulphur, Okla.

> Zoology Pleasin, Ohio Scholar in Political Science Pontiac

Economics Brookings, S. D.

Chemistry SS Princeville Chemistry Mazon Fellow in Theoretical and Applied Mechanics

Eells, Willard Clarke

B.S., 1911

A.B. (Lombard Coll.) 1907

^{*}On leave of absence.

Ekblaw, Karl John Theodore B.S., 1909 Ekblaw, Walter Elmer A.B., 1910; A.M., 1912

Elmer, Manuel Conrad B.S. (Northwestern Coll) 1911 A.M., 1912

Engle, Edgar Wallace

B.S. (Drury Coll.) 1912 Englis, Duane Taylor A.B. (Eureka Coll.) 1912

Ensign, Newton Edward A.B. (McKendree Coll.) 1905 A.B. (Oxford Univ.) 1908

A.B. (Oxford Univ.) 1908
B.S., 1911
Erdahl, Absalom C
A.B. (St. Olaf Coll.) 1911
*Erwin, John Frank
B.S., 1907
Eskelson, Ola Mattie Josephine
B.S. (Hedding Coll.) 1912
Fairhall, Lawrence Turner

B.S., 1911
Farwell, Stanley Prince
B.S., 1907, M.S., 1910
Fauquher, Silas Edgar
B.S. (Earlham Coll.) 1909

Faust, Ernest Carroll A.B. (Oberlin Coll.) 1912
*Fischer, Louis Engelmann
B.S., 1898
Fisk, Ira William
B.S., 1909

Flaningam, Miletus Lafayette
B.S., 1909
Flaningam, Miletus Lafayette
B.S. (Northwestern Univ.) 1904
Fleener, Frank Leslie
A.B. (Denison Univ.) 1912
Forrey, Edna Laura
A.B. (Heidelberg Univ.) 1906
A.M. (Miami Univ.) 1909
†Fowler, Chester Charles
B.S., 1909
Fracker, Stanley Black
A.B. (Buena Vista Coll.) 1910
M.S. (Lova State Coll.) 1912
Gardner, John Joseph
B.S. (Mass. Agr'l Coll.) 1905
B.S. (Boston Univ.) 1912
Geyer, Denton Loring

Geyer, Denton Loring
A.B. (Univ. Wisconsin) 1910
Gillette, Clinton Edgar

B.S., M.S., (Cornell Coll.) 1910, 1911

Glasgow, Grace
B.S., M.S., 1912
Glasgow, Hugh
A.B., 1908
Glasgow, Robert Douglass

A.B., 1908 Glasgow, Ruth B.S., M.S., 1912

Architecture Rantoul Geology Naberville

Sociology Buffalo, Mo. Chemistry Eureka Scholar in Industrial Chemistrv Altamont

Theoretical and Applied Mechanics Frost, Minn. Scandinavian Languages Moline Mechanical Engineering Abinadon Scholar in Mathematics Danville Chemistry Chicago Electrical Engineering Evansville, Ind. Scholar in Botany Carthage, Mo. Zoology St. Louis, Mo. Civil Engineering Urbana Electrical Engineering Urbana

Geology Wawaka, Ind. Fellow in German Ames, Iowa

Chemistry Storm Lake, Ia.

Education

(SS)

Scholar in Entomology Champaign

Dodge Center, Minn.

Pomology Madison, Wis. Fellow in Philosophy Lisbon, Ia. Inorganic Chemistry Tennessee Botany Tennessee Entomology Tennessee Entomology Tennessee Botany

... ...

^{*}Candidate for professional degree in engineering. †In absentia.

Goebel, Julius Ludwig, Jr. A.B., 1912 Gohn, Lloyd Elias (Work for A.B. completed) Gonnerman, Harrison Frederick B.S., 1908

Good, John Walter
A.B. (Erskine Coll.) 1902 A.M. (Erskine Theological Sem.)
1904 B.D. (Allegheny Theological Sem.)

1905

Goodman, Byne Frances
A.B., 1912
Goodwin, Thomas Gregory
A.B. (Harvard Univ.) 1912
Graham, Sappho Cecelia
A.B. (Iowa State Coll.) 1911

Gray, Cora Emeline
B.S., M.S. (Univ. Chicago) 1906, 1909

Green, Bessie Rose A.B., A.M., 1907, 1910

A.B., A.M., 1907, 1910
Greene, James Henry
B.S., 1908
Grimes, Ruby Mabel
A.B. (Yankton Coll.) 1911
Gross, Alfred William
B. B. (Vankton Coll.) 1911

Ph.B. (Northwestern Coll.) 1909
Gustafson, Charles LeRoy
B.S., 1912
Gutberlet, John Earl
A.B. (Bethany Coll.) 1909

A.M., 1911 Gutsell, James Squier A.B., (Cornell Univ.) 1911

Gwinn, Alta A.B., 1907

Haan, Mary Anna

A.B., 1912 Hadley, Harry Fielding A.B. (James Millikin Univ.) 1911 A.M., 1912

Hake, Harry Gray B.S., M.S., 1907, 1910

Hall, Homer A.B., 1912

Hall, Royal Glenn A.B. (Park Coll.) 1912 Hanford, Alfred Chester

A.B., 1912
Harbarger, Sada Annis
A.B. (Ohio State Univ.) 1906
A.M., 1909
Haughwest Mars Parella 1

Haughwont, Mary Rosalind A.B., A.M. (Wilson Coll) 1894, 1903 †Haungs, Howard Charles

B.S., 1907
Heater, Elmer Franklin
B.S., 1911
Hebbert, Clarence Mark
B.S. (Otterbein Univ.) 1911

Urbana Political Science Rochester, Ind. Education Dixon Theoretical and Applied Mechanics Fayetteville, Tenn.

Fellow in English Literature Champaign Scholar in History Jamaica Plain, Mass. English Cresten, Ia. Scholar in German W. Palm Beach, Fla.

Economics Ivesdale Zoology SS Dubuque, Ia. Animal Husbandry Wagner, S. D. Scholar in Mathematics SS Monticello Education Boone, Ia.

> Zoology Ithaca, N. Y.
> *Scholar in Zoology Urbana English Aurora Scholar in Latin Decatur

Architecture Hardy, Nebr.

Fellow in Industrial Chemistry Urbana Electrical Engineering Belvidere Scholar in English Goodman, Mo. Zoology Carbondale Scholar in Political Science Columbus, Ohio

English Belleville, Pa. Botany Peoria Civil Engineering Champaign Electrical Engineering Arvada, Wyoming Mathematics .

^{*}Resigned, Dec. 31, 1912. †Candidate for professional degree in engineering.

Hedgcock, William Everett B.S., 1909 Heitkamp, George William A.B., (Univ. Wisconsin) 1912 Held, Felix Emil A.B., A.M. (Emporia Coll.) 1902. 1908 Hendrix, William Samuel A.B. (Harvard Univ.) 1907, A.M., 1909 A.M. (Cornell Coll.) 1910 Hess, Raymond A.B., (Morningside Coll.) 1912 Heuse, Edward Otto B.S. (Hanover Coll.) 1900, M.S., 1907 Hewes, Charles Kay B.S., 1912 Hill, Frank Ernest A.B. (Stanford Univ.) 1911 Hill, William Griffith Hill, William Griffith
A.B. (Carthage Coll.) 1912
Hinds, Milford Everett
A.B. (Northwestern Univ.) 1912
Hobart, Clyde Monroe
A.B., 1912
Holley, Charles Elmer
A.B., 1912
A.B., 1912 Hollinshead, Melvin Arthur A.B. (Albion Coll.) 1911 Hollmann, Edward Emil B.S., 1912 Hornbeck, John Wesley B.S. (Illinois Wesleyan Univ.) 1906

B.S. (Olinovis Wesleyan United A.M., 1909

Hornor, Nellie Nancy
A.B., 1912

Houston, Harold Allen
B.S. (Purdue Univ.) 1911

Howard, Joseph Whitney
A.B. (Shurtleff Coll.) 1912

*Howell, Leslie Dillon
B.S., 1907

Huber, Joseph Earl
B.S., 1912

Huenink, Henry Lawrence
A.B. (Carroll Coll.) 1911

A.B. (Carrolt Coll.) 1911

Hulce, Ray Stillman

B.S.A. (Univ. Wisconsin) 1911

*Ilg, George Martin Aloysius

B.S., 1909

Ingels, Nellie Louise

Ph.B. (Greenville Coll.) 1911 Inman, Austin Willis A.B., Ph.M. (Univ. Chicago) 1906, 1908

*Iteland, Washington Parker B.S., 1903 Ivey, Paul Wesley

A.B. (Lawrence Coll.) 1912 Jahr, Marvin Edward A.B., (Univ. Wisconsin) 1905 James Helen Dickson

James, Helen Dickson A.B., 1910 SS Plymouth
Agronomy
Cuba, Wis.
Physiography
(SS) Emboria, Kan.

German Literature Sylaconga, Ala.

(SS) Spanish
Plover, Ia.
Organic Chemistry
Madison, Ind.

Fellow in Physical Chemistry Quincy Organic Chemistry San Jose, Calif. English Larthage Scholar in English Peotone Chemistry Urbana Philosophy Franklin Grove Scholar in Education Port Clinton, Ohio English St. Louis, Mo. Chemistry Perry

Physics Danville Scholar in Physics Chicago Fellow in Railway Engineering Litchfield Scholar in Organic Chemistry Tacoma, Wash. Architectural Engineering Urbana Scholar in Civil Engineering Cedar Grove, Wis. Chemistry Whitewater, Wis. Dairy Husbandry Chicago Civil Engineering Greenville Mathematics

SS Greenville
Mathematics
(SS) Fairbury

History
Sacramento, Calif.
Civil Engineering
Grayling, Mich.
Scholar in Economics
Neillsville, Wis.
Agronomy
Urbana
German

^{*}Candidate for professional degree in engineering.

James Leonard Vaughan B.S., 1906, M.S., 1912 *Jensen, Joseph Norman B.S., 1906 Jinguji, Genjiro B.S., 1912 Johnson, Gertrude B.S., 1911 Jones, Lloyd Theodore A.B. (Lake Forest Coll.) 1909 M.S., 1912 Jordan, Harvey Herbert B.S. (Univ. Maine) 1910 Kaiser, John Boynton A.B. (Western Reserve Univ) 1908 B.L.S. (N. Y. State Library) 1910 Kamm, Oliver B.S., 1911 Keller, Oran B.S. (Rutgers Coll.) 1912 Kelso, Ruth
A.B., A.M., 1908, 1909
Kiernan, Arthur
Ph.B. (Brown Univ.) 1911 Kiler, Aureka Belle
A.B., 1896
Kimball, Sidney Fiske
A.B., M.Arch. (Harvard Univ.)
1909, 1912 Kircher, Edward August Theodore A.B., A.M., 1911, 1912 Kirkpatrick, Harold H A.B., 1897

Kiyohara, Ippei
B.S. (State Coll. Washington) 1911

Koenig, Henry Herman
B.S. (Univ. Wisconsin) 1912 Koons, Guy Jink B.S., 1912 *Korsmo, Amund Marius B.S., 1909 Kratz, Elwin Valentine B.S., 1912 Lamkey, Ernest Michael Rudolph (Work for A.B. completed)
Lawson, Edward Latan
A.B., Ph.B. (Union Christian Coll.) SS 1901, 1902 Layng, Thomas Ernest A.B., A.M. (McMaster Univ.) 1909,

1912

1909

Leonard, Frank Bonner

A.B., 1912 Lillehei, Ingebright L

Linkins, Ralph Harlan

Lehenbauer, Philip Augustus A.B. (Westminster Coll.) 1907

A.B. (Illinois Coll) 1911

B.S. (Millikin Univ.) 1908

A.B., A.M. (Univ. Minnesota) 1908,

Amboy
Electrical Engineering
Chicago
Civil Engineering
Choshi, Japan
Electrical Engineering
Chicago
Zoology
Raymond

Physics Waltham, Me.
Theoretical and Applied Mechanics
Urbana

Political Science
Highland
Chemistry
New Brunswick, N. J.
Chemistry
Escondido, Calif.
English
Providence, R. I.
Mathematics
Champaign
Education
Boston, Mass.

Architecture

Chicago
Fellow in Mathematics

Mayview
Education
Maka-Gun, Tokushima, Japan
Electrical Engineering
Champaign
Electrical Engineering
SS Murphysboro
Education
Oakley, Idaho

Education
Oakley, Idaho
Civil Engineering
Champaign
Scholar in Architectural Engineering
Riverton
Botany
Moweaqua

Education Toronto, Canada

Chemistry (SS) Hannibal, Mo.

Fellow in Botany Metropolis Economics Minneapolis, Minn.

Scandinavian Jacksonville Zoology

^{*}Candidate for professional degree in engineering.

SS

Long, Walter Sterrett A.B., A.M. (Ohio Wesleyan Univ.) 1905, 1908 1905, 1908 Loring, Frank Carlton B.S. (Purdue Univ.) 1904 A.M. (Columbia Univ.) 1907 Ludwig, Clinton Albert B.S. (Purdue Univ.) 1912 Lutz, Gretchen Katherine A.B. (Albion Coll.) 1909 McDermet, Rudolph B.S., 1912

Macdonald, Janet Malcolm A.B. (Morningside Coll.) 1910 McDowell, Samuel Kline
B.S. (Tri State Coll.) 1909
Macfarlane, Wallace
B.S. (Agr'l Coll. Utah) 1911 B.S. (Agr'l Coll. Utah) 1911
McGregor, Harold Hossack
A.B. (McMaster Univ.) 1910
M.S. (Univ. Louisville) 1912
McKinney, Henry Theodore
(Work for A.B. completed)
Maney, George Alfred
B.S. (Univ. Minnesota) 1911

Martin, Oscar Ross A.B. (Central Wesleyan Coll.) 1907 Martz, Robert John B.S. (Franklin Coll.) 1910 Mason, Mayne Seguine B.S., 1911

Mathewson, Louis Clark A.B., A.M. (Albion Coll) 1910, 1911 A.M., 1912

*Mesicoff, Joseph Albert
B.S., 1899

Millard, Earl Bowman A.B. (Univ. Colorado) 1910 A.M. (University Wisconsin) 1911 Millard, Floyd Hays B.S. (Univ. Colorado) 1910

B.S. (Univ. Colorado) 1910
M.S., 1912
Miller, J Earll
A.B. (Univ. Kansas) 1910
LL.B., 1912
Miller, Roland Norton
A.B. (Lawrence Univ.) 1911
Miller, Wilford Stanton
A.B., A.M. (Indiana Univ.) 1910, 1911

Mitchell, Harold Hanson A.B., 1909 Mitchell, Karl Wilson

A.B. (Wittenberg Coll.) 1908

Mohlman, Floyd William
B.S., 1912
Moore, Laura M
A.B. (Indiana Univ.) 1910 Morris, Alice Elvira (Work for A.B. completed)

Mosher, Edna B.S. (Cornell Univ.) 1908

Urbana Chemistry

Marion. Ind.

Electrical Engineering Brookville, Ind. Botany Albion, Mich.
Scholar in German
Seattle, Wash.
Fellow in Electrical Engineer-Fort Dodge, Iowa Scholar in Latin Hooveston Education

Ottawa, Canada Fellow in Chemistry Hudgens Education Minneapolis, Minnesota Fellow in Theoretical and Ap-

Salt Lake City, Utah Fellow in Agronomy

plied Mechanics Granite City (SS) Economics Fort Wayne, Indiana Chemistry Buda Fellow in Electrical Engineer-Macelona, Mich.

> Fellow in Mathematics Milwaukee, Wis.
> Mechanical Engineering Boulder, Colorado

Chemistry Boulder, Colorado

Civil Engineering Maysville, Kansas

Scholar in History Appleton, Wisconsin Organic Chemistry Champaign

Psychology Urbana Chemistry SS Georgetown, Ohio English literature Beardstown Chemistry

SS Terre Haute, Indiana History ViolaEducation Kempt Shore, Nova Scotia Scholar in Entomology

^{*}Candidate for professional degree in engineering.

Mosher, William Earl Ph.B., M.E. (Syracuse Univ.) 1909, 1911 Muncie, Fred Weaver A.B. (Wabash Coll.) 1910 Myers, Lena Josephine
(Work for A.B. completed)
Nathanson, Jonas Bernard
A.B. (Ohio State Univ.) 1912 Nevins, Joseph Allan A.B., 1912 Newell, Clyde Ross Ph.B., M.S. (Yale Univ.) 1910, 1912 Newlin, Charles Ivan B.S., 1912 Nickell, Lloyd Francis A.B., 1909 A.M., 1911 Niederman, Gertrude A.B., 1908 Noerenberg, Clarence Eugene B.S., 1907, A.E., 1909, A.B., 1910 Nottelmann, Rudolph Hans A.B. (Monmouth Coll.) 1912 Norbury, Frank Garm A.B. (Albion Coll.) 1912 Olin, Hubert Leonard A.B. (Univ. Iowa) 1908 M.S., 1911 Olson, Peter John
B.S. (Colorado Agr'l Coll.) 1910
Orcutt, Alfred Walter
B.S. (Carleton Coll.) 1909
A.M. (Lake Forest Coll.) 1911
Ostrander, Mabel Verona A.B., 1908
Ou, Hua Ching
A.B. (Peiyang Univ.) 1906
B.S., 1911
M.S., 1912
Owens Albert W Owens, Albert W. B.S. (Bucknell Univ.) 1909 Paine, Ellery Burton
B.S., M.S., E.E., (Worcester Poly.
Inst.) 1897, 1898, 1904
Palmer, James Asbury
A.B., A.M. (Shutleff Coll) 1897, 1901 Parr, Rosalie Mary A.B., 1906; A.M., 1911 Pearson, Frank A B.S. (Cornell Univ.) 1912 Peine, Arthur Frederick A.B. (Illinois Wesleyan Univ.) 1911 Peltier, George A.B. (Univ. Wisconsin) 1910 A.M. (Washington Univ.) 1912 A.M. (Washington Univ.) 1912
Perry, Leonora
A.B., B.L.S., 1908, 1909
Peters, William Warren
A.B., M.S., (Knox Coll.) 1911, 1912
Peterson, Alvah
B.S. (Knox Coll.) 1911
Pfeiffer, Benjamin Salisbury
RS 1012 B.S., 1912

Mechanicsville, N. Y.
Fellow in Mechanical Engineering
Paris
Chemistry
Urbana
English
Toledo, Ohio
Scholar in Physics
Camp Point
English
Milford, Conn.
Bacteriology
Indianapolis, Ind.
Animal Husbandry
Champaign
Fellow in Chemistry

Urbana
Chemistry
(SS) Highland Park
Education
Monmouth
Scholar in History
Springfield
Scholar in Chemistry
Tonkawa, Oklahoma

Chemistry
Grafton, N. Dakota
Agronomy
Lake Forest

SS Chicago
American History
Canton, China

Agronomy
Lewisburg, Penn.
Chemistry
Urbana

Electrical Engineering Clinton, Ky.

Greek
Mapleton
Botany
Beaver Falls, Pa.
Dairy Husbandry
Bloomington
Fellow in History
Grand Rapids, Mich.

Plant Pathology
Hackensack, N. J.
English
Hamilton
Electrical Engineering
Galesburg
Entomology
Peoria
Electrical Engineering

Pincomb, Helena Maude B.S. (Kansas Agr'l Coll.) 1901 Place, Vergil Augustus B.S. (Ohio State Univ.) 1912 Potter, Ralph Sydney A.B. (Lake Forest Coll.) 1909 M.S., 1911 Powers, Samuel Ralph A.B., 1912 Prince, David Chandler B.S., 1912 Randolph, Oscar Alan B.S. (Missouri School of Mines)

1911 Read, John William B.S., M.S. (Univ. Missouri) 1907,

1908 *Reed, Susan M A.B. (Mt. Holyoke Coll.) 1907

A.M., 1908 Renich, Katherine Louise A.B., 1911 Renich, Mary Emma

Kenich, Mary Emma
A.B., 1911, A.M., 1912
Rhodes, Edward Melville
LL.B., B.S., 1900, 1912
Riley, Charles Frederick Curtis
A.B. (Univ. Michigan) 1905

M.S., 1912 Rinaker, Clarissa A.B. (Blackburn Coll.) 1903

A.M., 1911 Rogers, Anna Sophie A.B., 1911

Rolfe, Mary Annette, A.B., 1902 Rowland, Sidney Archie, Jr. A.B. (Ouachita Coll.) 1907

Ruehe, Harrison August B.S., 1911

Rugg, Harold Ordway B.S., C.E. (Dertmouth Coll.) 1908, 1909

Rutledge, George A.B., 1910 Sayre, Rollo Clifton B.S. (McKendree Coll.) 1909 Scherfee, Samuel Hawthorne

A.B. (Stanford Univ.) 1909 Schneider, Henry Frank
A.B. (Central Wesleyan Coll.) 1910
Schutte, Tenjes Henry
B.S. 1912

Sears, George Wallace

B.S. (Drury Coll.) 1908

M.S., 1911 Seawell, Cornelia Ruth A.B. (Greenville Coll.) 1912 Seely, Fred B

B.S. (Worcester Poly. Inst.) 1907 Seese, Robert St. Clair

B.S., 1912

Lenexa, Kansas Household Science Hume, Ohio Animal Husbandry

SS Fairburg

Organic Chemistry Petersburg SS Biology Springfield Scholar in Electrical Engineer-

(SS) Urbana

Physics Columbia, Missouri

Chemistry Westfield, Mass.

Woodstock History SS Woodstock Mathematics Urbana Agronomy Champaign

History

Fellow in Zoology Carlinville

Fellow in English SS Bushnell Latin Champaign Philosophy

Bartleville, Okla. (SS) Physics Waukegan Dairy Husbandry

Fitchburg, Mass. (SS)

Education (SS) Champaign Mathematics

SS Grayville History Blountville, Tenn. Botany Nokomis

Chemistry SS Lenzburg History Kidder, Mo.

> Inorganic Chemistry Greenville Scholar in Latin
> Chester, N. Y.
> Mechanical Engineering Petersburg Scholar in Electrical Engineer-

^{*}On leave of absence.

Shepherd, Queen Lois A.B. (Northwestern Univ.) 1907

A.M. (Univ. Wisconsin) 1910

Shook, Glenn Alfred
A.B. (Univ. Wisconsin) 1907
Shulters, John Raymond
A.B., A.M., 1910, 1911

Simmering, Siebert Luke B.S. (Univ. Colorado) 1912

Simons, Alexander MacDougall B.S., 1912 Simpson, Francis Marion

B.S., 1909

Smith, Orrin Harold A.B. (Knox Coll.) 1908

A.M., 1909 Smith, Rose A.B., 1911 Smith, Vivian Thomas

Ph.B. (Greenville Coll.) 1911 *Smith, William Walter

A.B., B.S., 1900, 1907

*Snyder, Christopher Henry
B.S., 1890
Sonnenfeld, Harry
B.S., M.S. (Cornell Univ.) 1911,

1912

Spangler, Mary Margaret A.B., 1911 Spencer, Edwin Rollin A.B., 1911 Stevens, Robert Pearman

B.S. (No. Dak. Agr. Coll.) 1910

Stewart, Charles Leslie A.B. (Illinois Wesleyan Univ.) 1911 A.M., 1912 Stokes, John William B.S., 1912

†Strawn, Myrtle A.B., 1906 Stunkard, Horace Wesley

B.S. (Coe Coll.) 1912 Sutcliffe, Emerson Grant A.B. (Harvard Univ.) 1911

Swenson, Wilhelm Arthur
A.B. (Augustana Coll.) 1912
Taggart, Margaret Wallace

A.B. (Western Coll.) 1906 A.M. (Univ. Wooster) 1907

Tagore, Rathindra Nath B.S., 1909 Takaheshi, Mitsuteka

Tokvo Higher Technical School

I orvo Higher Technical Sch †Tanabe, Stetfan Fugta B.S. (Knox Coll.) 1911 Tanner, Fred Wilbur B.S. (Wesleyan Univ.) 1912 Taylor, Ward Hastings A.B., 1910

Madison. Wis.

Philosophy Urbana Physics Bristol, N. Y. Fellow in French

Boulder, Colo.
Fellow in Mechanical Engineering

Chicago Electrical Engineering

Vienna Animal Husbandry

Corning, Iowa

Physics SS Gibson City Botany

Tower Hill Education Philadelphia, Pa. Civil Engineering San Francisco, Calif. Civil Engineering Johannesburg, S. Africa

> Agronomy Joliet Scholar in English Rushville Scholar in Education Mandan, No. Dak. Theoretical and Applied Mechanics

(SS) Bloomington

Economics Norris City Fellow in Electrical Engineer-Albion History Walker, Iowa Zoology Plymouth, Mass. English

Gladstone, Mich. Scholar in Mathematics Wooster, O.

Zoology Bengal, India Botany Tokyo, Japan Electrical Engineering

Tokyo, Japan Physics Warsaw, N. Y. Chemistry

Avon Mathematics

^{*}Candidate for professional degree in Engineering.

[†]On leave of absence.

Thomas, Howard Rice C.E. (Univ. Texas) 1912

Thompson, David Grosh A.B. (Northwestern Univ.) 1911

Tieje, Ralph Earle A.B., 1910, A.M., 1912

Tilton, Nellie Edith A.B., 1910

Tohill, Louis Arthur A.B., 1912

Towns, Orla Alamon A.B., 1912 Tsou, Y Hsunden B.S. (Cornell Univ.) 1912

Van Cleave, Harley Jones B.S. (Knox Coll.) 1909 M.S., 1910

Van Deusen, Archibald Beebe B.S., 1912

Van Zoeren, Gerrit John A.B. (Hope Coll.) 1912

Voegelein, Lily Belle A.B. (Northwestern Coll.) 1912

A.B. (Northwestern Coll.)
Voigt, Irma Elizabeth
A.B., 1910, A.M., 1911
Wakeley, Leslie Marion
B.S., 1911
Waldo, Edward Hardenburgh
A.B. (Amherst Coll.) 1888
M.F. (Consul Univ.) 1808

M.E. (Cornell Univ.) 1890 Warner, Earle Horace

A.B. (Univ. Denver) 1912 Washington, Margaret

A.B. (Smith Coll.) 1912 Watson, Minnie Elizabeth A.B. (Olivet Coll.) 1909

Welch, Paul Smith
A.B. (Millikin Univ.) 1910
A.M., 1911
Wellman, Orpha May

A.B., 1911

Wells, John Richard B.S., 1912 Whitten, John Hamilton A.B., 1911, A.M., 1912

Wildman, Ernest Atkins B.S. (Earlham Coll.) 1912

Wiley, John Frederick
Ph.B. (DePauw Univ.) 1902
Williams, Guy Yandall
A.B. (Univ. Oklahoma)

A.M., 1910 M.S. (Univ. Chicago) 1911 Willson, Frank Gardner

B.S., 1903 Wilson, Frederick Weston B.S. (Kansas Agr'l Coll.) 1905

Wohlenberg, Walter Jacob B.S., 1910

Woodward, Paul Stanley B.S. (J. B. Stetson Univ.) 1908 Wooters, James Ellsworth Ph.B. (Blackburn Coll.) 1908

Austin, Texas Fellow in Theoretical and Applied Mechanics Evanston

Geology SS Urbana English

SS Champaign English Flat Rock SS

History Macomb SS History

(SS) Soochow, Kang Su, China Entomology Knoxville

> Zoology Chicago Electrical Engineering Zeeland, Mich. Chemistry Naperville Scholar in Latin Quincy Fellow in German Harvard Dairy Husbandry Urbana

> Electrical Engineering Urbana Physics Chicago Scholar in Entomology Oyster Bay, L. I. Zoology Oconee

Fellow in Zoology Champaign English HarvardAnimal Husbandry Castleton Plant Physiology Whittier, Calif. Chemistry

SS Mattoon Education Enid, Oklahoma

> Fellow in Chemistry Urbana Electrical Engineering Hill City, Kan. Animal Husbandry Lincoln, Nebr. Fellow in Mechanical Engineering Louisville, Ky. Organic Chemistry

(SS) Carlinville Education

*Worker, Joseph Garfield
B.S., 1904
Wright, Albert Bayard
B.S., A.M. (Illinois We
Univ.) 1907, 1910
Wright, Philip Quincy
A.B. (Lombard Cott.) 1912
Wyatt, Frank Archibald
B.S. (Agr. Coll. Utah) 1910
Yapp, William Wodin
B.S., 1911
Yensen, Trygve D
B.S., 1907
M.S., 1912
Zoller, Harper Filer Wesleyan

Zoller, Harper Filer B.S. (Lenox Coll.) 1911

Zucker, Adolph Edward A.B., 1912

Chicago Mechanical Engineering Wenona

Political Science Galesburg Scholar in Political Science Logan, Utah Agronomy Urbana Dairy Husbandry Christiania, Norway

Electrical Engineering Hopkinton, Ia. Chemistry Ft. Wayne, Ind. Scholar in German

^{*}Candidate for professional degree in engineering.

UNDERGRADUATE AND PROFESSIONAL COLLEGES AND SCHOOLS IN URBANA

(Including the Colleges of Literature and Arts, Science, Engineering, Agriculture, and Law, the Library School, and the School of Music)

ABBREVIATIONS

Courses	

nd Arts
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paratory
Engineering
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nd Sanitary
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1 Engineering
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chanical Engineer-
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L Law			
		*CREDIT	
NAME	COURSE	HOURS	RESIDENCE
Aagaard, Arthur Hildeman	ME	75	Chicago
Abbott, Helen	LA	98	Chicago
Abbott, Leland Tracy	ME		Kenmore, N. D.
Abbott, Louis Asa	Agr	68 1	Morrison
Abbott, Seth David	Agr	98	Sheridan
Abney, Bertram	Agr	641	Harrisburg
Abrams, Duff Andrew, B.S., C.E.,	SS	_	Urbana
1905, 1909			
Acer, Donald Winchester	BLA	67	Medina, N. Y.
Acer, Katherine Edith	HSLA	66	Medina, N. Y.
Adams, Eugene Franklin	AE	96	Ashland, Neb.
Adams, Joseph James	CerE	18 2-3	Rockville, Ind.
Adams, Pauline Hopkins	Mus sp		Grand Rapids, Mich.
Adams, William Calvin	ChE (SS)	71	Watseka
Adams, William Clyde	MnE	69	Chicago
Agee, Polk Watkins	A		Helena, Ark.
Ainsworth, Harry Francis	Agr	321	Greensburg, Ind.
Ainsworth, Harry Gregory	Agr	60	Mason City
Alband, Laura	HSLA	30	Streator
Alband, Lillian May	LA	94	Streator
Albin, Harold Cornelius	Agr (SS)	61	Washington, D. C.
Albin, John Norris	Agr	-	Geneva
Albrecht, Arthur Joseph, A.B., 1912	L	56	Tiskilwa
Albrecht, William Albert, A.B., 1911	Agr	130 }	Flanigan
Albright, Raymond Bean	LA	66	Minier
Albright, Roscoe Harrison	CE	112	Minier
Aldrich, Harry Glen	A	172	Galesburg
Aleshire, Sarah Louise	HSAgr	62	Chicago
Alexander, Catherine Carolyn, A.B.			
(Univ. Michigan) 1912	Lb		Iron Mountain, Mich.
Alexander, Grace Elizabeth	SS	10	Chicago
Alexander, James Greenleaf	L		Corydon, Iows
Alexander, John Alva	SS	98 1	Mansfield
Allen, Alice Alexandria	HSLA	25	Urbana
Allen, Ernest Victor	ME	35	Pana
Allen, Frank Oscar	S	30	Clinton
Allen, Joe Graham	Agr		Washington, Ind.

^{*}Computed October 1, 1912.

Allen, Louis	LA	104	Clinton
Allen, Paul Glen	LA	34	Chicago
Allen, Faul Glen			
Allen, Ruben C	Agr		Montfort, Wis.
Allen, Ruben C Allen, Ruby Letitia	LA	99 1	Carlyle
Allhands, Cash Lyle	Agr	33½	Watseka
Allis, Fayette Henry Allison, Carl Walter Allison, Jay Malcom Allison, Ruth Elizabeth Allison, Theodore Mason	A		
Allis, rayette Helliy		301	Manhattan, Kans.
Allison, Carl Walter	S	99 1	Olney
Allison, Jay Malcom	BLA		Downers Grove
Allison Ruth Flizabeth	LA	32	Kirkland
Allian Thandara Masan	LA	46	
Allison, Theodore Mason		40	Peterson, Iowa
Almond, Harry Havens	A		Anderson, Ind.
Altneter, Walter George	ME	42	Chicago
Almond, Harry Havens Altpeter, Walter George Alvord, Genevieve Raymond	LA		Urbana
Al The			
Alyea, Inomas Elwood	A_{\perp}		Earlville
Amborn, Louise	BLA		Ft. Madison, Iowa
Ambrose, Arthur Samuel	Agr(SS)	58	Downers Grove
Amos, Douglas Jacques	Agr	7	Cairo
Ainos, Douglas Jacques			
Amsbary, Harlow Aydelott	ME	71	Champaign
Amsbary, Paul Donald	A		Urbana
Amsbary, Harlow Aydelott Amsbary, Paul Donald Anderle, Emil Joseph	Cer	71	Chicago
Anderson Renjamin Franklin	L		Charleston
Anderson, Benjamin Franklin Anderson, Clarence Felix	L.C.	1 201	
Anderson, Clarence Felix	S S	130½	Flora
Anderson, Clarence Joseph	LA	34 1	Princeton
Anderson, Clarence Scott	Agr	71	Polo
Anderson, Clude Maxwell	S	33	
Anderson, Clyde Maxwell	3	33	Camp Point
Anderson, Clyde Maxwell Anderson, Mrs. Electa Jeannette			
Wallace	LA sp		Clayton
Anderson, Isabella	LA ·	110 1-6	Prairie du Rocher
Anderson, Isha Henning	CE	791	Rock Island
Anderson, John Henning Anderson, Joshua Clayton Anderson, Lillian Jean Gondoline			
Anderson, Joshua Clayton	Agr	481	Williamsport, Ind.
Anderson, Lillian Jean Gondoline	Mus sp		Chicago
Anderson, Owen Huntington Anderson, Rena	ME		DeKalb
Anderson Done	HSLA	63	Polo
Anderson, Rena Anderson, Roy William Anderson, Walker Whitcomb Anderson, Walter Siegfried Anderson, William French Andresen, Hans Henry Louis Andrews, Chauncey Bliss Andrews, Edwin Willard Andrews, John Asa Andrews, Lawes Burton		03	
Anderson, Koy William	Agr		Oregon
Anderson, Walker Whitcomb	A	34	Holden
Anderson, Walter Siegfried	CE	773	Rock Island
Anderson William Franch	Agr		Lake Forest
Anderson, William French		331	
Andresen, Hans Henry Louis	A	71	Chicago
Andrews, Chauncey Bliss	Agr	67	Chicago
Andrews, Edwin Willard	ChE	40	Joliet
Andrews John Ass	Agr	27	Walnut
Andrews, John Asa			
Andrews, James Burton Andrews, Mark Andrews, Peach Helen	Agr	106	Walnut
Andrews, Mark	Agr		Birmingham, Ala.
Andrews, Peach Helen	LA	98	Macon
Andrews, Roscoe Crum	LA	, 0	Mattoon
A day of William D.J 1			
Andrews, William Edward Andrews, William Orus Anthony, Charles Becht	<u> </u>		Pana
Andrews, William Orus	CE	115	Oak Park
Anthony, Charles Becht	A	83	Chicago
Apple, Charles Henry	ĈE	76	Peoria
A1 Albert As1-			
Applegate, Albert Angelo	BLA	84	Atlanta
Applegate, Albert Angelo Applegate, Clyde Freeman Applegate, Ruth Pauline Arbuckle, Leon	Agr	241	Greensburg, Ind.
Applegate, Ruth Pauline	HSS		Atlanta
Arbuckle Leon	CE		Brocton
A D Manda		25	
Armington, Dorothy Maude	LA	35	Dixon
Armstrong, Clifford Oakley	ME		Bloomington
Armstrong, Della Estelle	LA	26	Newton, Iowa
Armstrong Lenov François	ME	39	River Forest
Armington, Dorothy Maude Armstrong, Clifford Oakley Armstrong, Della Estelle Armstrong, Lenox Francois Armstrong, Louise Christobel, A.B.,	414.42	37	TOTES!
Armstrong, Louise Christopel, A.B.,			
1912	SS		Fenton, Mich.
Armstrong, Walter Clark Armstrong, Wayne Covert	Agr	381	Chicago
Armstrong Wayne Covert	SS	25	Newton, Iowa
Amold Howard Clinton	Carr	72	Chicago
Arnold, Howard Clinton	Cer		Chicago
Arnold, Noble	MSE	110 1	Chicago
Arthur, James Merritt	Agr	_	Indianapolis, Ind.
Arthur, James Merritt Asada, Toichi James	EE	65	Tajima, Japan
Aschauer, Frank Henry	EE	32	Chrisafal-
	LE	36	Springfield

			14 14 11
Asa, Alan Newton	Agr	46	McNabb
Achheels William Louis	A	6	Chicago
Ashbeck, William Louis	L (SS)	U	
Ashbeck, William Louis Ashley, Lauren S Ashwill, Raymond Morris	L (33)	_	Sibley
Ashwill, Raymond Morris	BLA	9	Toledo
Atkinson, Albert King	S	9 106½ 94	Chicago
Attition, Much Manting	7.4	1002	Chicago
Atkinson, Frederick Mortimer, Jr. Atkinson, Harry Grant Attebery, Clara Mabel	LA	94	Chicago
Atkinson, Harry Grant	LA		Mt. Vernon
Attahamu Clara Mahal	HSAgr	83	Hillsboro
Attenery, Clara Maber	1137197	0.5	
Attebery, Homer Franklin	Agr		Hillsboro
Atwater Allan Russell	Cer		Lugano, Switz.
Atwater, Allan Russell Atwood, Charles Austin	Agr	139	
Atwood, Charles Austin			Alta
Augustus, Earl Kirkwood	Agr	57 ½	Urbana
Augustus I alah Marie	HSAgr	-	Urbana
Augustus, Laian marie		201	
Augustus, Ralph Edgar	Agr(SS)	39 1	Urbana
Austin, Barton Slade	Agr	341	Woodstock
Austin Harald Emery	ME	37	Chicago
Austin, Harold Emery		37	
Auten, John Thompson	Agr		White Hall
Atwood, Charles Austin Augustus, Earl Kirkwood Augustus, Lalah Marie Augustus, Ralph Edgar Austin, Barton Slade Austin, Harold Emery Auten, John Thompson Avery, John Madison Avey, Daniel Morrisy, B.S., 1910 Avelson Alice Grace	SS	95 1	Nashville
A De viel Mannier DC 1010	BLA	, , ,	
Avey, Daniel Morrisy, B.S., 1910	DLA		Mattoon
Axelson, Alice Grace	S CE	55	St. Louis, Mo.
Avers Cearge Lincoln	CF	37	St. Charles
Ayers, George Lincoln			
Axelson, Alice Grace Ayers, George Lincoln Ayres, Lester George	EE	6	Chicago
Azarraga, Francisco Babcock, Jennie May Bacher, Holland Robert	Agr		Calivo, Capiz, P. I.
Delegale Length Man	LA		Danville
Babcock, Jennie May	LA		
Bacher, Holland Robert	S	68	Bronxville, N. Y.
Back, Robert	CerE	147	Chicago
Back, Robert			
Bacon, Robert Hamilton Bader, Opal Virginia	EE	74	Kalamazoo, Mich.
Bader, Onal Virginia	SS	4	Browning
Dadwar Hanna Chillman	EE	112	Appleton, Wis.
Badger, Henry Stillman		112	Appleton, wis.
Bagusin, Alexis Matthew	Md		Odessa, Russia
Bagusin, Alexis Matthew Bailey, Charles Wilber, Jr. Bailey, John Willard Bailey, LaForce	BLA	75	Geneva
Dancy, Charles Wilber, Jr.	A	68	
Balley, John Willard			Lovington
Bailey, LaForce	\boldsymbol{A}	35	St. Charles
Bailey Roscoe Edward	EE	108	Lovington
Bailey, Roscoe Edward Bailie, Robert Mills	\overline{A}	70	Storm Lake, Iowa
Baille, Robert Mills	4		
Baines, Alice Elizabeth	HSLA LA	65	Urbana
Bainum, Glenn Cliffe	LA	96 1	Paxton
Danium, Glenn Cime	211	,03	1 0
Bair, William Harry, B.S., (Ohio			
Northern Univ.) 1908	SS	13	Ruffsdale, Pa.
Daird Ethel May	HSLA	104	Urbana
Baird, Ethel May Baird, Stacey Phillip			
Baird, Stacey Phillip	Agr	33	Peotone
	Agr(Ss)	441	St. Louis, Mo.
Paleer Cooil Forle	L sp		Pine Bluff, Ark.
baker, Cecil Laile			
Baker, Gerald Clifford	ChE		Bement
Baker, Harry Tames	Ch		Worthington, Ind.
Dalson Descoil Donler	BLA	27	Dayton, Ind.
Baker, Cecil Earle Baker, Gerald Clifford Baker, Harry James Baker, Russell Parks Baker, Walter Earl Baker, William Hargrave		21	Dayton, Ind.
Baker, Walter Earl	S		Bement
Raker William Hargrave	ŠS	3	Altamont
Daldwin I on Store	AL	71	Freeport
Baldwin, Leo Starr Baldwin, William Frazier			Clicapore
Baldwin, William Frazier	\boldsymbol{A}	24	Chicago
Balkema, Salome Rose	LA		Chicago
D-11 C W-11-	EE (SS)	201	Edison Park
Ball, George Waldo	EE (33)	38 1	
Ballon, Joseph Ladd	ME	75	Wheaton
Ballon, Joseph Ladd Bane, Frank Milton			
	Aar	18	Pontiac
Dalle, I lank Militon	Agr	18	Pontiac Dittofold
Barber, Harry Truman	Ag	18 58 1	Pittsfield
Barber, Harry Truman Barber, John Kenneth	Ag		
Barber, Harry Truman Barber, John Kenneth Barber, Julia Minnetta	Ag Cer	58 1	Pittsfield LaFox
Barber, Harry Truman Barber, John Kenneth Barber, Julia Minnetta	Ag Cer LA	58½ 100	Pittsfield LaFox LaFox
Barber, Harry Truman Barber, John Kenneth Barber, Julia Minnetta Barber, Leslie Carroll	Ag Cer LA BLA	58½ 100 103	Pittsfield LaFox LaFox LaFox
Barber, Harry Truman Barber, John Kenneth Barber, Julia Minnetta Barber, Leslie Carroll Barber, Phil Chase	Ag Cer LA BLA MF	58½ 100 103 86	Pittsfield LaFox LaFox LaFox Chicago
Barber, Harry Truman Barber, John Kenneth Barber, Julia Minnetta Barber, Leslie Carroll Barber, Phil Chase	Ag Cer LA BLA MF	58½ 100 103 86	Pittsfield LaFox LaFox LaFox Chicago
Barber, Harry Truman Barber, John Kenneth Barber, Julia Minnetta Barber, Leslie Carroll Barber, Phil Chase Barbre, Clarence	Ag Cer LA BLA ME Ch (SS)	58½ 100 103 86	Pittsfield LaFox LaFox LaFox Chicago
Barber, Harry Truman Barber, John Kenneth Barber, Julia Minnetta Barber, Leslie Carroll Barber, Phil Chase Barbre, Clarence	Ag Cer LA BLA ME Ch (SS) CE	58½ 100 103 86	Pittsfield LaFox LaFox LaFox Chicago
Barber, Harry Truman Barber, John Kenneth Barber, Julia Minnetta Barber, Leslie Carroll Barber, Phil Chase Barbre, Clarence	Ag Cer LA BLA ME Ch (SS)	58½ 100 103 86	Pittsfield LaFox LaFox LaFox Chicago
Barber, Harry Truman Barber, John Kenneth Barber, Julia Minnetta Barber, Leslie Carroll Barber, Phil Chase Barbre, Clarence Barclay, Herbert Thomas Barden, Harold Edward	Ag Cer LA BLA ME Ch (SS) CE EE	58½ 100 103 86	Pittsfield LaFox LaFox LaFox Chicago
Barber, Harry Truman Barber, John Kenneth Barber, Julia Minnetta Barber, Leslie Carroll Barber, Phil Chase Barber, Clarence Barclay, Herbert Thomas Barden, Harold Edward Bardwell, Anna Laura	Ag Cer LA BLA ME Ch (SS) CE EE HSLA	58½ 100 103 86	Pittsfield LaFox LaFox LaFox Chicago
Barber, Harry Truman Barber, John Kenneth Barber, Julia Minnetta Barber, Leslie Carroll Barber, Phil Chase Barbre, Clarence Barclay, Herbert Thomas Barden, Harold Edward Bardwell, Anna Laura Bargh, George Holbrook	Ag Cer LA BLA ME Ch (SS) CE EE HSLA BLA	58½ 100 103 86	Pittsfield LaFox LaFox LaFox Chicago
Barber, Harry Truman Barber, John Kenneth Barber, Julia Minnetta Barber, Leslie Carroll Barber, Phil Chase Barbre, Clarence Barclay, Herbert Thomas Barden, Harold Edward Bardwell, Anna Laura Bargh, George Holbrook	Ag Cer LA BLA ME Ch (SS) CE EE HSLA BLA	58½ 100 103 86	Pittsfield LaFox LaFox LaFox Chicago
Barber, Harry Truman Barber, John Kenneth Barber, Julia Minnetta Barber, Leslie Carroll Barber, Phil Chase Barber, Clarence Barclay, Herbert Thomas Barden, Harold Edward Bardwell, Anna Laura	Ag Cer LA BLA ME Ch (SS) CE EE HSLA	58½ 100 103 86	Pittsfield LaFox LaFox LaFox Chicago Taylorville Kansas City, Kan. So. Pasadena, Calif. Aurora Kinmundy

Caulon Musical Contracto	HSLA		Doobland
Barker, Muriel Gertrude		37	Rockford
Barkman, Charles Pruden	LA	37	Princeton
Barlow, Ralph Linden Barlow, Roscoe Leland	L	20	Urbana, Ohio
Barlow, Roscoe Leland	Md	29	Walshville
Barman, Somendra Chandra Deb	LA	29	Bengal, India
Barnes, Allen Littler Barnes, Nelle	A	1071	Urbana
Barnes, Nelle	Mus (SS)	69	Urbana
Barnes, Otis Avery Barnes, Robert Olney Barnes, Russell Daniel	Ch		Auburn
Barnes, Robert Olney	EE	37	LaGrange
Barnes, Russell Daniel	AE		Taylorville
Barnum, Edmund Maginnis	ME	33	LaGrange
Barnum, Edmund Maginnis Barnum, Richard Fyfe	ME		LaGrange
Barr Charlotte Devter	LA		Freeport
Barr James Lackner	BLA	32	River Forest
Barr, Charlotte Dexter Barr, James Lackner Barr, Lola Rea		32	Characilla
Darr, Loia Rea	SS	$\frac{3\frac{1}{2}}{35\frac{1}{2}}$	Greenville
Barreau, August Matthew	AE	33 2	Bollendorf, Germany
Barrett, Edwin Galbraith	BLA		Des Moines, Ia.
Barrett, Edwin Galbraith Barrett, Frank Newton Barrick, Nellie Elizabeth	Agr sp HSLA	10	Chicago
Barrick, Nellie Elizabeth	HSLA	81	Villa Grove
Barringer, Luna	SS		Hillsboro
Barrow, Ethel May	HSS	19	
Bartells Henry Harrison	Cer	123	Wilmette Camp Point
Partels Nellie Flore	LA	21	Edwardsville
Bartells, Henry Harrison Bartels, Nellie Flora Barth, Edward Fred	1	31	
Barth, Edward Fred	Agr CE	31	Pana
Barth, Joseph Leroy	CE		Murphysboro
Bartlett, Ellen Margaret	HSAgr sp		Alameda, Calif.
Bartley, John Solomon Bartling, Henry Wilmont Barto, Harriett _nompson Bartz, Edwin Joseph	\boldsymbol{A}		Waterloo, Iowa
Bartling, Henry Wilmont	EE	61	Litchfield
Barto, Harriett , nompson	HSLA		Urbana
Bartz Edwin Joseph	BLA	33	Oak Park
Basadre Federico	CE	33	Lima, Peru
Basadre, Federico Bascome, Bartow Strang	SS	1411	Elmira, N. Y.
Dascoine, Dartow Strang		1411	
Bass, Glenn Wallace	MSE	98	Walnut
Batkin, Paul Jay	L	120	Long Beach, Calif.
Battey, Zilpha Curtis Bauer, Arthur Archibald Bauer, Harry Lloyde Bauer, Leo Michael	HSLA		Tiskilwa
Bauer, Arthur Archibald	Agr sp		Bunker Hill
Bauer, Harry Lloyde	Aar	72	Champaian
Bauer, Leo Michael	A (SS) Agr (SS)	78	Horton, Kansas
	Agr (SS)	071	Springfield
Raumgarten Arthur William	EE (55)	74	Toliet
Bauman, Louis Feter Baumgarten, Arthur William Baus, John Ellroy Baxter, Ralph Powell Baxter, Vaughn Butler Beach, Amy Adaline Beach, Elinor Beach, Francis Herman Beal, Mrs. Edith Beal, Walter Hubert Beall, Lohn Percival	Agr sp	/ 7	Bunker Hill Champaign Horton, Kansas Springfield Joliet Scales Mound Astoria Ottawa
Daus, John Enroy			Actorio
Baxter, Kaiph Powell	Agr	701	Astoria
Baxter, Vaughn Butler	Agr	142	O I I I I I I I I I I I I I I I I I I I
Beach, Amy Adaline	LA	67	Champaign
Beach, Elinor	Mus	42	Vandalia
Beach, Francis Herman	LA		Champaign
Beal, Mrs. Edith	Mus sp		Scio, Ohio
Beal, Walter Hubert	LA		Moline
Beall, John Percival Beaton, Matthew A, Jr. Beatty, Edward Corbyn Obert	LA	381	Alton
Beaton Matthew A Ir	AE	502	Chicago
Reatty Edward Corbus Obert	LA		
Donahoin Woman Dlate	AE	,	Quincy Whiting, Ind.
Beaument, Warren Platt Beaument, George Stanley		3	Whiting, Ina.
Beaumont, George Stanley	Agr	74	Chicago
Bebb, Edwin Adams Bebb, Forrest Bebb Maurice Robert	Agr		Chicago
Bebb, Forrest	Agr		Muskogee, Okla.
Bebb Maurice Robert	Agr	114	Muskogee, Okla.
Beckemeyer, Harvey John	SS	85 2-3	Hillsboro
Becker, Carl Valentine	ME		Springfield
Becker, Lewis Michael	ME	4	Quincy
Becker Morris Lewis	ME (SS)	104	Quincy Chicago
Reckett Harry Ocean		107	Stronglauret
Postott Ing Dand	Agr sp	7.0	Stronghurst
Deckett, joe Rand	A		Indianapolis, Ind.
neene, Christopher Keeney	ChE	61	Chicago
Beebe, Kenneth John	Agr	721	Chicago
Bebb Maurice Robert Beckemeyer, Harvey John Becker, Carl Valentine Becker, Lewis Michael Becker, Morris Lewis Beckett, Harry Oscar Beckett, Joe Rand Beebe, Christopher Keeney Beebe, Kenneth John Beeby, Ruth Alice Beeman, Marion Nelson	LA		Urbana
Beeman, Marion Nelson Behel, Vernon Wilbur	SS	52 t	Lewistown
Behel, Vernon Wilbur	A		Chicago

Behrensmeyer, Helen	LA (SS)	27 1	Quincy
Beindorf, Paul Albert	ME	-	Litchfield
Beindorf, Paul Albert Bell, Leo Richard	MnE	75	Stapleton, N. Y.
Relnan Nuel Dinsmore	LA	71	Washington, D. C.
Belshaw, Charles Franklin	ME		Rockford
	Agr sp	19	Argentina, S. Am.
Benjamin, Harry Webb Benner, Arthur Jacob Benner, William Jacob Bennett, Hazel Marguerite Bennett, Louise Nancy	S	61	Chillicothe
Benner, Arthur Jacob	CerE	34	Chicago
Benner, William Jacob	Çer	32	Chicago
Bennett, Hazel Marguerite	LA T		Washington
Bennett, Louise Nancy	LA S	65	Urbana
Bennett, William Harrison Bennitt, Ralph Anderson Benson, Arnold Seigfrid		56	Aurora
Bennitt, Ralph Anderson	CE (SS)	107	Chicago
Benson, Arnold Seigirid	Agr	27	Batavi a Chicago
Benson, Arthur Edward	A(SS) Agr	146	Lockport
Bentley, Robert Lewis Bentz, Clarence Louis Berge, Maurice Aurelius Berger, Frederick Edward Berger, Wallace	AE AE	6	Chicago
Bentz, Clarence Louis	Md	25	Ransom
Parger Fraderick Edward	A	119	Davenport, Iowa
Darger Wallace	ΆE	110	Chicago
Bergland, Floyd Harrison	Agr	72	Wasco
Bergman, Frank	ĒĒ	, -	Chicago
Bergmann, Adolph	ME	90	Chicago
Berlin, Ethel Mary	BLA	67	So. Omaha, Nebr.
Bernard, Leslie Cosby	A	87	Dayton, Ohio
Berner, Johannes Jakob	Agr sp	• •	Berg auf Fehman,
, ,	31		Germ.
Bernhardt, Josephine Elizabeth Bernhardt, Pearl Anna Maria Berninger, Harriet Josephine	LA		Collinsville
Bernhardt, Pearl Anna Maria	HSS	32	Collinsville
Berninger, Harriet Josephine	SS	$15\frac{1}{3}$	Mt. Carmel
Berry, Edwards Hall	EE	78	Oak Park
Berwald, Charles Harry	EE	40	Dallas, Texas
Berwald, Charles Harry Beust, Max Charles	AE	31	LaCrosse, Wis.
	BLA		St. Louis, Mo.
Beyer, Flizabeth Gunder Beyer, Vera Bicknell, Fay Helen Bigel, William, Jr.	SS	32	Urbana
Beyer, Vera	BLA	63	Urbana
Bicknell, Fay Helen	HSAgr	94	Lovington
Bigel, William, Jr.	Agr		Chicago
Bigier, Harry Edward	BLA	713	Sigel
Bilhorn, Walter Edward Billman, Elliott Binding, Leo Ross	ÇE	79	Chicago
Billman, Elliott	LA		E. St. Louis
Binding, Leo Ross	Agr sp	2 2 1	Stockbridge, Mich. River Forest
Bingham, Arthur Barnes	$Agr \\ LA$	$33\frac{1}{2}$	Geneva
Birch, Robert Featherstenaugh	Mus		Dows, Ia.
Birdsall, Jessie Marie Birkenbeuel, Clarence Edward	EE.		Peru
Rissell George Francis	Cer (SS)	58	Winnetka
Bissell, George Francis Bissell, Stanford Faulkner	LA	30	Chicago
Black, George William	Agr sp		Urbana
Black, George William Black, Hugh Ray	ME	1	Hall, N. Y.
Black, John Earl	ME	75	Mendota
Black, Lois Frances	S		Urbana
Black, John Earl Black, Lois Frances Black, Robert Sommerville	ME		Mendota
Blackall, Altred Harris	SS	8	Chicago
Blackburn, Earl Franklin	Agr sp		Hillsboro
Blackburn, Frederick Jackson	Agr	751	Hillsboro
Blackburn, Earl Franklin Blackburn, Frederick Jackson Blackburn, Robert Edwin Blackwell, Michael Joseph	Agr	$104\frac{1}{2}$	Quincy
Blackwell, Michael Joseph	Agr sp		Armorel, Ark.
Blair, Ularence Eligene	Agr sp		Danville
Blair, Hattie Mary	SS	61	Salem
Blake, George Washington Blake, Winifred	CE	37	Maywood
Plates a Walter Author	HSAgr	48	Maywood Kanaga City Ma
Blakeslee, Walter Arthur Blatherwick, Wilfred Francis	$_{\mathcal{A}}^{ME}$	101 109	Kansas City, Mo.
Bleuel, Marie Teresa	Š	39	Vincennes, Ind. Chicago
Block, Edward Stevenson	Agr	37	Chicago
more, Buwaru Stevenson	1191		- nicego

Bloebaum, Benjamin Harrison	7	50	St Charles Ma
Bloom, Carl Wilfred	L CE	43	St. Charles, Mo. Omaha, Nebr.
Bloom, Frederick Eller	BLA	7.5	Peoria
Bloom, Frederick Eller Blough, Earl Blaine	CE	80	Champaign
Blue, Mrs. Eleanor Baker, A.B.,		00	Champaign
1906	SS SS EE CE		Champaign
Blue, Harry I.	SS	5	Shawneetown
Blum, Walter Joseph	ĒΕ	5 77	Chicago
Bock, Paul Theodore	ĈĒ	112	Chicago
Blum, Walter Joseph Bock, Paul Theodore Boettiger, Louis Angelo	LA	116	Chicago
Bolander, Harold Benjamin		92	Glen Ellyn
Bolander, Harold Benjamin Bollman, Arthur Henry Bolster, Nicholas John Bonham, Martha Elizabeth Bonner, Ray Fisher Boone, George Ingels	BLA		Tuscola
Bolster, Nicholas John	CE		Mercedes, Argent.
Bonham, Martha Elizabeth	LA	99	Watseka
Bonner, Ray Fisher	Agr sp		Canton
Boone, George Ingels	Agr	48	Sidney
	A	50 1	LaFayette, Ind.
Booze, MacDonald Charles Bose, Kumudini Kauta Boucher, Cecil Francis Bourassa, Reginald Pierre	Cer	691	Sullivan
Bose, Kumudini Kauta	ME		Dacca, Bengal, India E. Las Vegas, N. M.
Boucher, Cecil Francis	A	77	E. Las Vegas, N. M.
Bourassa, Reginald Pierre	A	32 104½	Westfield, Mass.
Bourdette, Bertha Estelle	LA	$104\frac{1}{2}$	Montevideo, Uruguay
Bow, Loren Cushing Bow, Warren Edward	CEFE	36 71 1	Detroit, Mich. Detroit, Mich
Bow, Warren Edward	S LA	711	
Bowen, Evalena Bowen, Harry Eldridge			Fruitport, Mich
Bowen, Harry Eldridge	Agr sp		Neponset
Bowen, Harry Stephenson	AE		Seattle, Wash.
Bowers, Blanche Belle	HSLA	29	Clinton
Bowers, John Frederick Bowers, William Ray	ME	31	Elmwood
Bowers, William Kay	Agr CE sp		Lanark
Bowling, Benjamin Lester	CE SP	22	Stanford
	LA Mus	32 12	Urbana
Bowman James Louise	SS		Urbana
Bowman, James Loy Boyd, Edith Boyd, Frances Josephine		5 1 33	Litchfield
Royd Frances Josephine	LA	98	Sheffield Latham
Boyd, Landon Baird Boyd, Lowell Thaddeus Boye, Walter Fred Boyer, Walter Howard Boyers, Bess	A	70	LaPorte, Ind.
Boyd, Lowell Thaddens	22	68 1	Bedford, Ind.
Boye, Walter Fred	LA CE	002	St. Paul
Boyer, Walter Howard	CE	75	DeSoto, Mo.
Boyers, Bess	HOLA ISS	954	Decatur, Ind.
Bradley, Cedric Cory Bradley, Frank Bradley, Harold Smith Bradley, John Thomas, Jr. Bradley, Tobias Edward Bradrick, Lucy Center	EE Agr sp AE	36	Westfield, Mass.
Bradley, Frank	Agr sp		Avon
Bradley, Harold Smith	ΑĒ	61	Rockford
Bradley, John Thomas, Jr.			C. 7 . 34
Bradley, Tobias Edward	L sp	9 104 32 69	Peoria
Bradrick, Lucy Center	LA	104	Farmland, Ind.
Diady, Edward Michael	CerE	32	Anna
Brainard, Fred Branch, Nelle Uree, A.B., 1907	CE (SS)	69	Prairie Du Sac, Wis.
Branch, Nelle Uree, A.B., 1907	20		Champaign
Brandner, Alexander Rudolph	A_{CIP}	117	Chicago
Brandner, Alexander Rudolph Brandner, Emil George Brandon, Engenie Josephine Brandon, Joseph Franklin Brandstetter, Joseph Mandel	ÇhE		Chicago
Brandon, Engenie Josephine	LA		Farmer City
Brandstotter Jeseph Mandel	Agr	0.4	Washington, Ind.
Brannon George Paymond	AE	86 19 31 52½ 85	Chicago
Brannon, George Raymond Brannon, Herbert Franklin Brant, Chauncey Hezekiah Brasen, Herbert Spencer	Agr	21	Louen, Ind.
Brant Chauncey Herekinh	L sp Agr	52½	Streator
Brasen Herhert Spencer	ĈE	85	Hamilton Chicago
Bratten, Arno Brayton, Dorothy Mae	22	10 5.6	Chicago Marion
Brayton, Dorothy Mae	SS HSS	591	Blue Island
Brecount, Perry	ME	36	Decatur
Breedis, John	ChE sp		Goldinger Russic
Breedlove, Lincoln Bates	ME	921	Goldinger, Russia Martinsville, Ind.
Breining, Walter Alyn	Ā	74	Indianapolis, Ind.
Breitmeyer, John Fred	Agr sp		Mt. Clemens, Mich.
Breedlove, Lincoln Bates Breining, Walter Alyn Breitmeyer, John Fred Breitstadt, Emma Matilda	LA		Quincy
			-

	T 4		0.1
Brennan, Wintress	LA	58	Ogden
Brenneman, Charles Gage Brenneman, Jacob Brentlinger, Clell McArthur	SS	8	Ava
Brenneman Jacob	Agr sp	-	Hopedale
Daniellan, Jacob			
Brentinger, Clen McArthur	EE		Carlisle, Ind.
Breton, John Fred	ME	81	Chicago
Brewer, Chester Wellington	S		Urbana
Brewer, Chester Wellington Brewer, George Wilson Brickler, James Irven, A.B. (Hills- dale), 1894; M.S. (Univ. Michi- gan), 1909 Brigklar Vernon Dee	S SS	7	Louisville
Deiglie Tenne Tenne A.D. (Tittle	55	•	Donistine
Brickler, James Irven, A.B. (Hills-			
dale), 1894; M.S. (Univ. Michi-			
gan). 1909	Agr(SS)		Urbana
Brigham, Vernon Dee	Md		Robinson
		4.0	
Brinkerhoff, Verne William	ME	40	Rock Island
Bristow, George Washington	S		Metropolis
Britton Floyd Evanston	L		Mt. Vernon
Pritton William Franctt A M 1010	\widetilde{L}	28	Mt. Vernon
Bristow, George Washington Britton, Floyd Evanston Britton, William Everett, A.M. 1910 Broadbent, Earl Robert Broadhead, William James Broadhurst, Tabitha Jayne			
Broadbent, Earl Robert	ME	38	Chicago
Broadhead, William James	Agr(SS)	$101\frac{1}{2}$	Sedgwick, Colo.
Broadhurst, Tabitha Javne	Mus sp	-	Little Rock, Ark.
Brook Flmor Lorin	SS	7 1	Jeffersonville
Diock, Ellilei Lollii			
Brock, James Samuel	Agr	70 1	Keithsburg
Brock, Elmer Lorin Brock, James Samuel Brockmeyer, Edwin John	AE	112	E. St. Louis
Brodd, Lawrence Samuel	CE	39	Cambridge
Brookl Wayne Cattlick	\widetilde{BLA}	69	Pana
Broehl, Wayne Gottlieb	DLA	09	
Bronson, Roger Beckwith	BLA		Wilmette
Brooks, Elizabeth Maude	LA	65	Potsdam, N. Y.
Brooks Ethel Isahel	HSLA		Beecher City
Bronson, Roger Beckwith Brooks, Elizabeth Maude Brooks, Ethel Isabel Brooks, Fannie Maria	HSLA	67	
Brooks, Fannie Maria		57	Saunemin
Brooks, Fred Keynolds	\boldsymbol{A}	58 1	Loogootee, Ind.
Brooks, George Roland Brooks, Oscar Franklin Brooks, Raymond Harrison	Agr(SS)	24	Paris
Brooks Oscar Franklin	Agr	28	Paris
Daniel De man 1 II.		20	
Brooks, Raymond Harrison	Agr		Marion
Brown, Albert Willard	EE		Tiffin, Ohio
Brown, Bayard	Agr		Genoa
Brown, Albert Willard Brown, Bayard Brown, Edward Sutherland Brown, Elmer Alfred	Agr	$80\frac{1}{2}$	Normal
Drown, Edward Editherland	EE	79	
Brown, Elmer Alfred			St. Louis, Mo.
Brown, Elmer Arthur	ME (SS)	45	Urbana
Brown, Flora Maud, A.B. (Univ.			
Texas) 1905	Lb		San Saba, Texas
	A	114	
Brown, Francis Andrew			Champaign
Brown, Frank Lincoln	LA	12	Macomb
Brown, Howard Dexter	Agr	713	Tiffin, Ohio
Brown, Irwin Tucker	Agr sp	_	Chicago
Brown James Fooren		6	Urbana
Brown, James Fearon Brown, John Bernis Brown, Kenneth George	L		
Brown, John Bernis	ChE	31	Rock Falls
Brown, Kenneth George	LA (SS)	3	Urbana
Brown, Lelah Brown, Lloyd Warfield Brown, Loyal Charles	SS	43 2-3	Hillsboro
Brown Lloyd Warfield	Agr sp	24	Jacksonville
Drown, Lloyd Warnerd			
Brown, Loyal Charles	Agr sp	$15\frac{1}{2}$	Genoa
Brown, Olive May Brown, Pembroke Holcomb Brown, Robert Rea Brown, Russell Warden	Mus	73	Champaign
Brown, Pembroke Holcomb	LA	33	Rockford
Brown Robert Rea	BLA		Urbana
Drown, Robert Rea		4 4 1	
Brown, Russell Warden	BLA (SS)	$11\frac{1}{2}$	Marshall
Brown, Kutherford Haves	Agr sp	151	Griffin Cor., N. Y.
Brown, Waldo Reinhart Bruce, Walter Robert	ME	31	Niles Center
Bruce Walter Robert	LA	13	Blue Island
Davington F. 1. XV		13	
Bruington, Earle Vivian	Agr		Monmouth
Bruner, Crane Simpson Bruner, Mary Viola	CE	44	Urbana
Bruner, Mary Viola	LA	97	Mattoon
Brunkow, Norman Ferdinand	LA	73	Dubuque, Iowa
Brunskill, Everett Robert			Pontiac
Brunskiii, Everett Robert	ChE	35	
Brunson, Arthur Maxwell	Agr	124	Joliet
Bryan, Helen Gordon, A.B., 1906	Mus sp		Champaign
Bryan, Sarah Elizabeth, A.B. 1908.	•		
B L S 1910	Mus sp		Champaign
B.L.S., 1910 Bublitz, Walter John		~ .	
Dublitz, Walter John	CE	75	Chicago
Buchanan, Richard Bell	Agr	21	Joplin, Mo.

Bucher, Ermane Gaylord Buck, Daniel Sidney	Cam	25	Danting
Bucher, Elmane Gaylord	Cer	35	Pontiac
Buck, Daniel Sidney	CE	53	McLean
Ruck Odin H	ME		Oblong
Buck, Odin H Buck, Philip Eliot Buck, Walter Elmer	ML		
Buck, Philip Eliot	CE SS SS SS	79	Chicago
Buck Walter Elmer	22	6½ 8½ 73	Beardstown
Duck, Walter Limes	33	0.7	
Buckler, Bruce Joseph	55	8+	Metcalf
Buckler Carl William	22	73	Metcalf
Bucklet, Carl William	22	13	
Buckler, Bruce Joseph Buckler, Carl William Buckner, Orello Simmons Budina, Adolph Otto Buell, Temple Hoyne Buelow, Paul Edward	Cer		Newark, N. Y.
Rudina Adolph Otto	A	78	O'Fallon
Dudina, Mariph Otto	11.	/ 0	
Buell, Temple Hoyne	AE		Chicago
Ruelow Paul Edward	ME		Elgin
Ducion, Tau Lawara	142		
	A	20	Quincy
Buffington, Frank Harris Buhai, Abraham Samuel Buhai, Michael	EE	108	Middletown, Ohio
Dumington, Irana Itarris		100	
Buhai, Abraham Samuel	CerE		Chicago
Buhai, Michael	AE	69	Chicago
J. D. Janes T. Language D. Anna	2000	4 3 4 1	
duBuisson, Johannes Petrus	S (SS)	1312	Senekal, Orange Free
		_	State So Africa
D 11 M. 1. D 11	77.0.4		7,5,6,6,50. 11,7,100
Bull, Maude Emily	HSAgr	32	State, So. Africa Union Grove
Bullard Edward Wesley	CE	105	Mechanicsburg
Dullard, Edward Wesley	ÇL,	103	
Bullard, Edward Wesley Bullard, Geraldine Alice	LA	77	Mechanicsburg
Bulot, Francis Henri	MSE	77 91	Chicago
Dulot, Francis fichit	MSE	71	
Bumann, Albert Theodore	ChE		Litchfield, Ill.
Bumann, Albert Theodore Bumstead, Alice Amelie Bumstead, Whitney Vand	HSAgr	7.0	
Dumsteau, Ance Americ		10	Dundee
Bumstead, Whitney Vand	S		Chicago
Runch Mamie	HSS	80	Urbana
Bunch, Mamie		00	
Bundy, John Leland	Agr		Tuscola
Bundy, John Leland Bunge, Ralph William Bunn, Nixon Lawrence	ME (SS)	91	
bunge, Kaiph William	ME (33)	91 104	Chicago
Bunn, Nixon Lawrence	CE	104	Springfield
Bunting, Loyd Daniel Bunting, Lyman Jesse Burger, Howard Jean Burgoon, David Warner Burke, Edmund Joseph	LA		
Builting, Loyd Damer			Ellery
Bunting, Lyman Jesse	Agr	70	N. Yakima, Wash.
Burger Howard Jean	Agr BLA FF	37	Woodstock
Durger, moward Jean	DLA	31	
Burgoon, David Warner	EE		E. St. Louis
Burke Edmund Joseph	CE		Chicago
Darke, Lamana Joseph			
Burke, Gertrude Frances	LA		Chicago
Burke, Ralph	ME	75	Three Rivers, Mich.
Durke, Raipii	ML	13	
Burkhart, Paul Henry	ME		Henry
Burkhart, Paul Henry Burnam, Harry Stough Burnett, William, Jr.	L		Lexington, Ky.
Durnam, Harry Stough			
Burnett, William, Jr.	EE	72	Decatur
Burnham, Marjorie Olive	LA		Paris
Durinami, Marjoric Onic			
Burns, Argean	Agr (SS)	40	Chicago
Burns, Ardean Burns, Charles Maley, B.S. (Knox	. ,		
C 11			
Coll.)	$_{L}^{L}$		Galesburg
Burns, Cyril Agard, A.B., 1911	7	52	Fairbury
Durane, Elle		J.	C I D ''I M''
Burns, Cyril Agard, A.B., 1911 Burns, Ella	LA		Grand Rapids, Mich. Grand Rapids, Mich.
Burns, Franklin Barnhart Burns, Owen McIntosh	BLA	86	Grand Rapide Mich
Duran Omen Melatech			
Burns, Owen McIntosh			Daniella
	LA		Danville
burren, Inomas Henry			Danville
Burrell, Thomas Henry	AE		Danville Albion
Burstrom, Stephen William	AE EE	1301	Danville Albion Albion, Idaho
Burstrom, Stephen William Burt, Ruth Cornelia	AE EE		Danville Albion Albion, Idaho
Burstrom, Stephen William Burt, Ruth Cornelia	AE EE LA sp		Danville Albion Albion, Idaho Savoy
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert	AE EE LA sp EE	1301	Danville Albion Albion, Idaho Savoy St. Louis, Mo.
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert	AE EE LA sp EE	1301	Danville Albion Albion, Idaho Savoy St. Louis, Mo.
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert	AE EE LA sp EE	1301	Danville Albion Albion, Idaho Savoy St. Louis, Mo.
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert	AE EE LA sp EE	1301	Danville Albion Albion, Idaho Savoy St. Louis, Mo.
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert	AE EE LA sp EE	1301	Danville Albion Albion, Idaho Savoy St. Louis, Mo.
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert	AE EE LA sp EE	1301	Danville Albion Albion, Idaho Savoy St. Louis, Mo.
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert	AE EE LA sp EE	1301	Danville Albion Albion, Idaho Savoy St. Louis, Mo.
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert	AE EE LA sp EE	1301	Danville Albion Albion, Idaho Savoy St. Louis, Mo.
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert	AE EE LA sp EE	1301	Danville Albion Albion, Idaho Savoy St. Louis, Mo.
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert	AE EE LA sp EE SS Agr SS LA	130 } 116 } 120	Danville Albion, Idaho Savoy St. Louis, Mo. Vincennes, Ind. Champaign Champaign Savoy
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert	AE EE LA sp EE SS Agr SS LA	130 } 116 } 120	Danville Albion, Idaho Savoy St. Louis, Mo. Vincennes, Ind. Champaign Champaign Savoy
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert Burton, Henry Frazee Burwash, Clarence Fletcher Burwash, Lois Irene, A.B. 1906, A.M., 1907 Burwash, Mabel Estella Burwash, Mary Gladys Burwash, Ralph Samuel Burwash, Thomac Clifford	AE EE LA sp EE SS Agr SS LA	130 } 116 } 120	Danville Albion, Idaho Savoy St. Louis, Mo. Vincennes, Ind. Champaign Champaign Savoy
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert Burton, Henry Frazee Burwash, Clarence Fletcher Burwash, Lois Irene, A.B. 1906, A.M., 1907 Burwash, Mabel Estella Burwash, Mary Gladys Burwash, Ralph Samuel Burwash, Thomac Clifford	AE EE LA sp EE SS Agr SS LA	130 } 116 } 120	Danville Albion, Idaho Savoy St. Louis, Mo. Vincennes, Ind. Champaign Champaign Savoy
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert Burton, Henry Frazee Burwash, Clarence Fletcher Burwash, Lois Irene, A.B. 1906, A.M., 1907 Burwash, Mabel Estella Burwash, Mary Gladys Burwash, Ralph Samuel Burwash, Thomac Clifford	AE EE LA sp EE SS Agr SS LA	130 } 116 } 120	Danville Albion, Idaho Savoy St. Louis, Mo. Vincennes, Ind. Champaign Champaign Savoy
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert Burton, Henry Frazee Burwash, Clarence Fletcher Burwash, Lois Irene, A.B. 1906, A.M., 1907 Burwash, Mabel Estella Burwash, Mary Gladys Burwash, Ralph Samuel Burwash, Thomac Clifford	AE EE LA sp EE SS Agr SS LA	130 } 116 } 120	Danville Albion, Idaho Savoy St. Louis, Mo. Vincennes, Ind. Champaign Champaign Savoy
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert Burton, Henry Frazee Burwash, Clarence Fletcher Burwash, Lois Irene, A.B. 1906, A.M., 1907 Burwash, Mabel Estella Burwash, Mary Gladys Burwash, Ralph Samuel Burwash, Thomas Clifford	AE EE LA sp EE SS Agr SS LA	130 } 116 } 120	Danville Albion, Idaho Savoy St. Louis, Mo. Vincennes, Ind. Champaign Champaign Savoy
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert Burton, Henry Frazee Burwash, Clarence Fletcher Burwash, Lois Irene, A.B. 1906, A.M., 1907 Burwash, Mabel Estella Burwash, Mary Gladys Burwash, Ralph Samuel Burwash, Thomas Clifford	AE EE LA sp EE SS Agr SS LA	130 } 116 } 120	Danville Albion, Idaho Savoy St. Louis, Mo. Vincennes, Ind. Champaign Champaign Savoy
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert Burton, Henry Frazee Burwash, Clarence Fletcher Burwash, Lois Irene, A.B. 1906, A.M., 1907 Burwash, Mabel Estella Burwash, Mary Gladys Burwash, Ralph Samuel Burwash, Thomas Clifford	AE EE LA sp EE SS Agr SS LA	130 } 116 } 120	Danville Albion, Idaho Savoy St. Louis, Mo. Vincennes, Ind. Champaign Champaign Savoy
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert Burton, Henry Frazee Burwash, Clarence Fletcher Burwash, Lois Irene, A.B. 1906, A.M., 1907 Burwash, Mabel Estella Burwash, Mary Gladys Burwash, Ralph Samuel Burwash, Thomas Clifford	AE EE LA sp EE SS Agr SS LA	130 } 116 } 120	Danville Albion, Idaho Savoy St. Louis, Mo. Vincennes, Ind. Champaign Champaign Savoy
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert Burton, Henry Frazee Burwash, Clarence Fletcher Burwash, Lois Irene, A.B. 1906, A.M., 1907 Burwash, Mabel Estella Burwash, Mary Gladys Burwash, Ralph Samuel Burwash, Thomas Clifford	AE EE LA sp EE SS Agr SS LA	130 } 116 } 120	Danville Albion, Idaho Savoy St. Louis, Mo. Vincennes, Ind. Champaign Champaign Savoy
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert Burton, Henry Frazee Burwash, Clarence Fletcher Burwash, Lois Irene, A.B. 1906, & A.M., 1907 Burwash, Mabel Estella Burwash, Mary Gladys Burwash, Ralph Samuel Burwash, Thomas Clifford Busey, Harold Karcher Busey, Josephine Katherine Busey, Nora John Busey, Mrs. Verna Kerker Bush, Frank Avery Bush, Kenneth Burman	AE EE LA sp EE SS Agr SS LA	130 } 116 } 120	Danville Albion, Idaho Savoy St. Louis, Mo. Vincennes, Ind. Champaign Champaign Savoy
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert Burton, Henry Frazee Burwash, Clarence Fletcher Burwash, Lois Irene, A.B. 1906, & A.M., 1907 Burwash, Mabel Estella Burwash, Mary Gladys Burwash, Ralph Samuel Burwash, Thomas Clifford Busey, Harold Karcher Busey, Josephine Katherine Busey, Nora John Busey, Mrs. Verna Kerker Bush, Frank Avery Bush, Kenneth Burman	AE EE LA sp EE SS Agr SS LA	130 } 116 } 120	Danville Albion, Idaho Savoy St. Louis, Mo. Vincennes, Ind. Champaign Champaign Savoy
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert Burton, Henry Frazee Burwash, Clarence Fletcher Burwash, Lois Irene, A.B. 1906, & A.M., 1907 Burwash, Mabel Estella Burwash, Mary Gladys Burwash, Ralph Samuel Burwash, Thomas Clifford Busey, Harold Karcher Busey, Josephine Katherine Busey, Nora John Busey, Mrs. Verna Kerker Bush, Frank Avery Bush, Kenneth Burman	AE EE LA sp EE SS Agr SS LA	130 } 116 } 120 102 59 21 27 23 125 } 25 72	Danville Albion, Idaho Savoy St. Louis, Mo. Vincennes, Ind. Champaign Champaign Champaign Champaign Champaign Champaign Unbana Urbana Urbana Peoria Quincy Belleville
Burstrom, Stephen William Burt, Ruth Cornelia Burtnett, Reid Albert Burton, Henry Frazee Burwash, Clarence Fletcher Burwash, Lois Irene, A.B. 1906, A.M., 1907 Burwash, Mabel Estella Burwash, Mary Gladys Burwash, Ralph Samuel Burwash, Thomas Clifford	AE EE LA sp EE	130 } 116 } 120 102 59 21 27 23 125 } 25 72	Danville Albion, Idaho Savoy St. Louis, Mo. Vincennes, Ind. Champaign Champaign Savoy

Butler, George Howland	CE	41	Chicago
Butler, Gordon Hubert			Calbin T 1
Butier, Gordon Hubert	SS	_8 1	Scipio, Ind.
Butler, Jewell Cecil Butler, William Glenn	EE	74	Havana
Butler, William Glenn	Agr (SS)	731	Cairo
Butt Harley Marion	CE	75	
Dutte marker Marion			Gilson
Butt, Harley Marion Buttonmaker, Mark Adolph	Cer	641	Chicago
Butzer, Byrdie Blye Butzer, Verna Viola Butzow, Emma Bertha	HSLA	31	Hillsdale
Butzer Verna Viola	HSLA	39	Hillsdale
Dutzer, Verna Viola		39	Tittsaate
Butzow, Emma Bertha	LA	16 2-	3 Wellington
Buxton, Stanley Gerald Buzick, James Clive Bye, Herbert William	Agr	131	Wingate, Ind.
Buzick James Clive	BLA	59	Chambaian
Des II - 1 117:11		39	Champaign
bye, Herbert William	L		Chicago
Byrne, Harriet Anne Byrne, Helen Cecelia	HSS		Chicago
Byrne Helen Cecelia	LA (SS)	111.2	-3 Chicago
Code Albert Products	Dr. (33)	111-6	-3 Chicago
Cade, Albert Frederic	BLA	324	Belle Fourche, S. D.
Cadieux, Josephine Louise	SS	7	Chicago
Cadle Chester Junius	LA		Charleston
Cadieux, Josephine Louise Cadle, Chester Junius Caule, Hubert Atwater			
Caule, Hubert Atwater	ME		Westfield, Mass.
Cahalen, Joseph Deming	ChE	23	Lenoxdale, Mass.
Caldwell, Lloyd Raymond	Agr	33	Neoga
Coldwell Bosineld Alexander		33	
Cahalen, Joseph Deming Caldwell, Lloyd Raymond Caldwell, Reginald Alexander Campbell, Arthur Harvey	Agr sp		Chicago
Campbell, Arthur Harvey	AE	$102\frac{1}{2}$	Macomb
Campbell, David Joseph Campbell, Florence Maud Campbell, Grace Amelia Campbell, Horace Leslie Campbell, Mildred Fliesbeth	LA	17	Urbana
Complete, David Joseph		17	
Campbell, Florence Maud	LA		Tolono
Campbell, Grace Amelia	LA	91	Urbana
Campbell Horace Leslie	Agr		Tallula
Compbell Many Aug 1	TIGT		
Campbell, Mary Anabel	HSLA		Albion
Campbell, Mildred Elizabeth Campbell, William Briggs Canfield, Ruth Mae Cannady, Will M., Jr.	LA	27	Decatur
Campbell William Briggs	$\overline{L}A$	5	Tueson Animone
Carfeld D. A. M.		,	Tucson, Arizona Holton, Kansas
Canneld, Ruth Mae	LA	93	Holton, Kansas
Cannady, Will M., Ir.	L	57	Danville
Carey, Russell Conwell	$\overline{E}E$		Pittsfield
Continto Donald Thomas			
Carnsie, Donaid Inompson	BLA		Elgin
Carlsen, Arnold Willmore	AE	35	Chicago
Carlisle, Donald Thompson Carlsen, Arnold Willmore Carlson, Carl Bernard	CE	41	St. Charles
Comison, Carrie Estimate		71	
Carlson, Carri Bernard Carlson, Carrie Esther Carlson, Lee Russell Carlson, LeRoy Carmichael, Wilbur Jerome Carpey, Clara Kathleen	LA		Chicago
Carlson, Lee Russell	EE		Clarence
Carlson, LeRoy	Agr		St. Charles
Cormichael Willer Town			
Carmichael, Wilbur Jerome	Agr	$110\frac{1}{2}$	Rochelle
Carney, Clara Kathleen	HSAgr	32	Marseilles
Carney, Clara Kathleen Carney, Mary Vance	LA (SS)	68	Marseilles
Carpenter Charles Vacaland			
Carpenter, Charles Kneeland Carpenter, Jay Ira Carpenter, Lewis Moffit	A	35	Faribault, Minn.
Carpenter, Jay Ira	Agr		Rochelle
Carpenter, Lewis Moffit	SS	541	Peoria
Carpenter Osia Edith	SS		
Carpenter, Osie Edith Carpenter, Thomas Earle	33	8	Muncie, Ind.
Carpenter, Inomas Larie	BLA		Kcokuk, Iowa
Carr, Vernon Wesley	BLA		Denison, Iowa
Carr, Vernon Wesley Carr, William Charles	Agr	112	Chicago
Carrell, Elvey Franc Carrier, Adela Pauline Carrier, Gerald Vincent Carroll, Frank Emil Carroll, Franklin Otis Carroll, Lee Joseph		112	
Carrent, Elvey Franc	Agr		Chicago
Carrier, Adela Pauline	Mus	71	Urbana
Carrier, Gerald Vincent	BLA	65	Urbana
Carroll Front Fmil		0,5	
Carron, Frank Emil	BLA		Atwood
Carroll, Franklin Otis	REE		Benton
Carroll, Lee Joseph	BLA	35	Chicago
Carroll, Lee Joseph Carruthers, Mary	HSAgr		
Cartainers, Mary		16	Ava
Carter, Alice	HSLA	3 4	Irvington, Ind.
Carter, Alice Carter, Isaac Ray Carter, Truman Post	LA	71	Rossville
Carter, Truman Post	SS	• -	Jacksonville
Carturight Core Di	TICC	107	
Cartwright, Sara Blanche	HSS	123	East Alton
Cartwright, Victor Harold	S (SS) LA	123	New Harmony, Ind.
Carv. Willie Ready	IA		Chicago
Case Flora Margaret A.D. 1010	71	40	
Case, Piora margaret, A.B., 1912	Lb	40	Urbana
Cartwright, Sara Blanche Cartwright, Victor Harold Cary, Willie Ready Case, Flora Margaret, A.B., 1912 Case, John Ruggles	Agr	102	Chicago
Casey, Sylvia Nevada	Mus sp	28	Woodstock
Casey, Sylvia Nevada Cash, Madia Alice	CC 34		
Coones Sidney	ŝ2	.8	Greenup
Casner, Sidney	LA	71	Chicago

Cass, Elizabeth Henrietta, A.B.,			
1912	Lb	55	Mt. Vernon, Wash.
	Agr	41	Champaign
Casserly, Joseph Bernard Cassidy, Holland Mullikin	\tilde{L}^{g}	26	Flora
Cassingham Florence Adelaide	LA	102	Champaign
Cassingham, Florence Adelaide	Agr	102	Versailles
Casteen, John Carlos	SS	7	
Casteen, Marie Louise Castillo, Carlos Castelazo Castle, Russell D V	DCE (CC)		Versailles
Castillo, Carlos Castelazo	RCE (SS)	5 1	Queretaro, Mexico Urbana
Castle, Russell D V	Cer		Urbana
Caswell, Omar	SS	$2\frac{1}{2}$	Mascouta
Cate, Huber Arthur	Agr (SS)	$117\frac{1}{2}$	Champaign
	Agr		Princeton
Cathcart, Robert Irl	ME	30	Deland
Cattron, Conrad Lee	Agr	$101\frac{1}{2}$	Ellisville
Cattron, Conrad Lee Cattron, Thomas Hezekiah Chambers, William Harold	EE	$118\frac{1}{2}$	Fairview
Chambers, William Harold	Agr	36	Evanston
Chand, Hari Chang, Vun-din Chinzun, B.S., 1912	EE (SS)	22	Punjab, India
Chang, Vun-din Chinzun, B.S., 1912	SS		Shanghai, China
Chantrey, Frederick Arthur Chapman, Edward Neal	ME		Lake Forest
Chapman, Edward Neal	ChE	28	Chicago
Chapman, Howard Alonzo Chapman, Ralph Dwyer Clinton Chapman, Raymond Stallwood	EE		Warrensburg, Mo.
Chapman, Ralph Dwyer Clinton	\overline{BLA}	40	Vienna
Chapman Raymond Stallwood	Agr	,,,	Chicago
Charni, Frederick Neal	Ā		Brookville, Ind.
Chartrand, John Baptist	ËE	28	E. St. Louis
Chara Clarence Colvin	ME	20	Buda
Chase, Clarence Calvin Chase, Dean Chase, John Albion Chase, Katherine Trusdell		0.1	
Chase, Dean	MSE (SS)	81	St. Louis, Mo. Urbana
Chase, John Albion	ÇE	~ ^	
Chase, Katherine Trusdell	LA	70	Rock Island
Chase, Russell Leon	Agr		LeRoy
Chatten, Carney Edward	S		Flora
Chatterjee, Brahma Nath	Agr (SS)	$100\frac{1}{2}$	Allahabad, India
Chatterjee, Brahma Nath Chatterton, John Lanphier Checkley, Joseph Harvey	LA		Springfield
Checkley, Joseph Harvey	Agr	106	Mattoon
Chen, Huang Chen, King Yaou Chenoweth, Homer Eldon Chesputt, Balah, Cookman	ChE	124	Kwong Chow, China
Chen, King Yaou	Ch	106 102 106	Shanghai, China
Chenoweth, Homer Eldon	S	102	So. Charleston, O.
Chesnutt, Ralph Cookman Chesrown, Leo Morello	ME	106	Chicago
Chesrown, Leo Morello	ME	75	Olney
Chew, Dorothy	HSS	24	Pueblo, Colo.
Chien, Sung Shu	S (SS)	78	Shanghai, China
Chien, Sung Shu Chipps, Paul_L	Agr	50	Sullivan
Christensen Frwin Ottoman	A	• •	Chicago
Christianson, Oliver Arthur Christopher, Arthur Bailey Christopher, Bessie Fern	Ā	15	Crookston, Minn.
Christopher, Arthur Bailey	Cer		Canton
Christopher Ressie Fern	HSAgr	62	Auburn
Christy Glen	EE	64	Harrisburg
Christy, Glen Chu, Co-Ching Chu, Vee Gih	Agr	1081	Shoa Hina China
Chu Vee Gib		124	Shoa Hing, China Shanghai, China Shanghai, China
Chuang, Tsin	AE (SS)	981	Shanahai China
Chubbush Tudson Floor		>0 <u>7</u>	Cibeen City
Chubbuck, Judson Elson Chumley, Edith Bland Churchill, Clarence Farnsworth Churchill, James Errol	EE SS	105	Gibson City
Chambill Clauser Francisch	သွသ	198	Springfield Cheno s
Churchill, Clarence Farnsworth	S EE	$117\frac{1}{2}$	
Clara Flora All		75	Mt. Carmel
Claar, Elmer Allen	LA	31	Moline
Clanin, Stephen Thurston	S	59	Lombard
Clapp, Howard Campbell	L		Danville
Clapp, Perry Gibson	Agr sp	400	New Albany, Ind.
Clare, William Henry	A	123	
Clark, Chester Arthur	Agr	71	Carthage
Clark, Clifton Wirt	$S^{*}(SS)$	96	Chicago
Clafin, Stephen Thurston Clafin, Stephen Thurston Clapp, Howard Campbell Clapp, Perry Gibson Clare, William Henry Clark, Chester Arthur Clark, Clifton Wirt Clark, Ernest McChesney Clark Harold Fdward	Agr (SS)	$113\frac{1}{2}$	
Clark, Harold Edward	Cer		Sterling
Clark, Harold Edward Clark, Harold Turner Clark, James Russell Clark, Meribah Eliza	BLA		Champaign
Clark, James Russell		20	
	A LA	28 78	Urbana Mt. Sterling

Clark, Rena Clark, Roscoe Perry Clark, William Otis	SS		Terre Haute, Ind.
Clark, Roscoe Perry	ME sp		Enosburg Falls, Vt.
Clark, William Otis	Agr	/=	Chrisman
Clarke, David Roland Clarke, Ethel Clarke, George Edward	LA	67	Urbana
Clarke, Ethel	HSS (SS)	103	Noblesville, Ind.
Clarke, George Edward	EE	2.5	Noblesville, Ind.
Clarkson, Albert lay Clausen, Clara Alice Clausen, Elizabeth Johanna Claussen, Arthur William Clausson, Kenneth Raymond	EE	35 31 48	Champaign
Clausen, Clara Alice	LA	31	Secor
Clausen, Elizabeth Johanna	HSAgr ME	48 106	Chicago Riverdale
Claussen, Arthur William	ME A	30	
Claubona Donothy Marian	A	30	Atlanta
Clayberg, Dorothy Marion Clayberg, Harold Dudley Claycomb, Edward Denman	Ŝ	100	Oak Park Oak P ar k
Clayberg, Harold Dudley	Agr	101	Sycamore
Clarge Icabel	HSAgr	19 1 56	Ottawa
Clegg, Isabel	LA	76	Kankakee
Clements Olen Robert	LA	68	W. Union
Cleghorn, Lelia Belle Clements, Olen Robert Clemons, Lewis Taylor		34	Paw Paw
Clendenin Adda May	S LA	3 4 35	Sparta
Clendenin, Adda May Clendinen, Henry Clary	LA	55	E. St. Louis
Climer Mary Ella	5	67	Palestine
Climer, Mary Ella Cline, Irl Reuben Cline, Lawrence Albert	S CE	36	Medora
Cline Lawrence Albert	ČE	75	Marion
Clover Charles William	Agr		Clinton, Ind.
Chover, Charles William Clover, Ira Newton Clyman, David Clyne, Kathleen Marcella	MSE	34	Gardner
Clyman, David	A	36	Chicago
Clyne, Kathleen Marcella	ΪΑ	108	Maple Park
Coady, Catherine Gertrude	A LA Mus sp ME	200	Champaign
Coady, Catherine Gertrude Cobb, Ernest Williams	ME	4	Chicago
Cohurn Mildred Leann	SS	8	McLean
Cochran, Charles Blake	AE	28	Marion
Cochran, Everett Lynn	\boldsymbol{A}	26	Flora, Ind.
Cochran, Charles Blake Cochran, Everett Lynn Cochran, Harry Rusling Cockrell, Francis Marion Codlin, Harry Lilsworth	AE A ChE EE (SS) Agr S EE	111	Mapte Lark Champaign Chicago McLean Marion Flora, Ind. Sterling
Cockrell, Francis Marion	EE (SS)	851	Marshall
Codlin, Harry Lilsworth	Agr	66	Wankee, Iowa
Coe, Tiefell Louise	S	31	Springfield
Coffey Klmer Washburn	EE	105	
Coffey, George Cleveland	L		Wayne City
Coffey, Hazel Belle	LA	62	Blue Island
Coffey, George Cleveland Coffey, Hazel Belle Cogdall, Harry Frank Cohn, Alexander	Agr Md	62 35 69 1	Chicago
Cohn, Alexander	Md	69 1	Chicago
Colpert, Harold Leland	Agr sp		Washington, Ind.
Colbert, James Rubin Colbert, Tel Eli Colcord, Frank Maynard	LA	66 1	Fairfield
Colbert, Tel Eli	SS	15 58	Washington, Ind.
Colcord, Frank Maynard	Agr (SS)	28	Greenville Pittsburg, Pa. Geneseo Glenview
Cole, Guerney Hill Cole, Hugh Leon Cole, Robert McFarland	EE (SS)	1192	Canada, Fu.
Cole, Ruga Leon	Agr (SS)	100	Clausiasu
Cole, Robert McFarland	ME ME	100	Greenville
Colomon Oren	SS	91	Carterville
Coleman, Henry Clay, Jr. Coleman, Oren Colescott, Leia Hazel Collins, Mrs. Emma Moss	<i>SS</i>	7 2	Fowler, Ind.
Colline Mrs Fmma Moss	Agr sp		Chicago
*Colline Sherwin Moss	Agr		Chicago
*Collins, Sherwin Moss Collison, Louis Glenn Collom, Isabel Eva Collom, Mary Elizabeth	BLA		Champaign
Collom, Isabel Eva	HSLA	67	Urbana
Collom, Mary Elizabeth	HSS	35	Urbana
	DIA	0.4	II amuia
Colson, Harold Edward	Agr	311	St. Charles
Colton, Russell Smith	MSE	38	Kansas City, Mo.
Colvin, Jay Austin	BLA	95	Chicago
Colwell, Miles Gilbert	ME	53	Wyoming
Colton, Russell Smith Colvin, Jay Austin Colwell, Miles Gilbert Combe, Eleanor Marie	$_{LA}^{ME}$	108	St. Charles St. Charles Kansas City, Mo. Chicago Wyoming Highland Evanston
Comstock, Daniel Franklin	\overrightarrow{BLA}	44	Evanston
Comstock, Daniel Franklin Comstock, Melen Bell	HSLA	64	LaGrange
Conboy, Lourde Joseph	EE	73	Sterling

^{*}Deceased.

Conderman, Julian Caleb	EE	16	Chicago
Condit Olivo Forms	S		Ludlow
Condit, Onve Ferne		2.2	
Conderman, Julian Caleb Condit, Olive Ferne Condon, Margaret Adele Conefry, Hal Wyman Conklin, Paul Stanley Conley, David Oris Conley, Josephine V Conner, Richard Henry	LA	33	Sheffield
Conefry, Hal Wyman	LA	31	LeRov
Contrin Paul Stanley	ME		Roscoe
Conkin, Taul Stanley			
Conley, David Oris	Md		Streator
Conley, Josephine V	LA	102	Streator
Conner Dichard Henry			Heriot Bay, B. C.
Conner, Richard Henry	2011	3.0	Heriot Bay, B. C. Monroe, Wis. Sycamore Vandalia Oak Park Iron Mountain, Mich
Connors, Stephen Wilfred Conrad, Cassius Bannister Conrad, Orien Ray	Md	32	Monroe, Wis.
Conrad, Cassius Bannister	BLA	91	Sycamore
Conrad Orion Pay	SS	16	Vandalia
Contad, Otten Ray	23	10	ranuana
Consoer, Meta	LA	103	Oak Park
Cook. Austin Clarence	Aar sb	14	Iron Mountain, Mich.
Cools Eugene	CR (SS)	21/2	Odin
Cook, Eugene	CL (33)	42	Oum
Cook, Austin Clarence Cook, Eugene Cook, James Fitchie, B.S., 1903	Agr sp CE (SS) SS		Elgin
Cooley, Harry B	AE	115	Chadron, Neb.
Cooley, Harry B Cooley, Norma	22	141	Managed
Cooley, Norma	AE SS EE CE		Maywood
Coolidge, Edwin Kay	EE	108	Winnebago
Coolidge, Richard Newell	CE	36	Lead, S. D.
Coolidge William Anderson In	Agr		Holong Aub
Coolinge, William Anderson, Jr.	Ayr		neiena, Ark
Cooper, Cedric Leslie Muriel	S	25	Helena, Ark E. St. Louis
Cooper, Charles Edward	Agr		Carlisle, Ind.
Cooley, Norma Coolidge, Edwin Ray Coolidge, Richard Newell Coolidge, William Anderson, Jr. Cooper, Cedric Leslie Muriel Cooper, Charles Edward Cooper, David William Cooper, Delmar Gilbert Cooper, Edward Alden Cooper, Kenneth Lupton	CC		A - 4 2 -
Cooper, David William	CD		Astoria
Cooper, Delmar Gilbert	CE		Hoopeston
Cooper, Edward Alden	ME	32	LaGrange
Cooper, Edward Lunton	CE (CC)	15	I - C
Cooper, Kenneth Lupton	CE (33)	45	LaGrange
Cooper, Percy Fenimore	ME	64	Waldron
Cooper, Verna May	I.A	34	Maline
Coopery Verna 11ay	1	102	T
Cooper, Percy Fenimore Cooper, Verna May Cope, Walter Allen Copenhaver, Murray	Ayr	102	Ionii
Copenhaver, Murray	Agr	112	Polo
Copley, Beatrice Virginia	I.A	41	Inliet
Cookly, Beatified Vinginia	100 06	22	777
Corply, George Toule	Agr sp	33	Urbana
Corbly, George Youle Corbly, Lynn Cordell, Vail	CE ME CE (SS) ME LA Agr LA Agr sp L (SS) LA (SS)		Urbana Macomb Evanston Decatur Decatur Hinssale Janesboro Charleston Chico, Calif.
Cordell, Vail	LA (SS)	71	Macomb
Corke, George Raymond	EE	100	Enguetou
Corke, George Raymond	EE	100	Evansion
Corley, Howard Corley, Seymour Cortis, Frederic Boyden	CE	108	Decatur
Corley, Seymour	ME LA SS EE	36	Decatur
Cortio Frederic Poudon	T A	102	777
Cortis, Frederic Boyden	LA	103	rinsaaie
Corzine, Clorah Eleen	2.2.	4 🛊	Janesboro
Corzine, Harland Winn	EE	1381	Charleston
Corzine, Clorah Eleen Corzine, Harland Winn Costar, Lloyd Cotter, Roscoe Sherman	\overline{Agr}	106	Chias Calif
Costai, Lioyu	Ayr	100	
Cotter, Roscoe Sherman	Agr sp		Oak Park
Coultas, Florence Avis	La	60	Sycamore
	Agr sp		Winchester
Courtas, Wilson James	Ayr sp	_	vv inchester
Courtney, Grime Green	22	7	Marion
Courtney, Griffie Green Courtney, Martha Elizabeth Coutant, Albert Francis Covey, Arete Caroline Covey, John Ellsworth Cowan, Adair Cowan, Percy Cowgill, Clinton Harriman Cox Anna Ethel	\$\$ \$\$ \$\$	67	Marion Mt. Vernon Brooklyn, N. Y. Farmer City Bloomington
Contant, Albert Francis	22	5	Brooklyn, N. Y.
Comon Aroto Concline	7.4	71	Brookiyn, IV. 1.
Covey, Arete Caronne	LA	/1	Farmer City
Covey, John Ellsworth	Agr	5	Bloomington
Cowan Adair	Agr ch		Mt. Vernon, Iowa
C D	Agr sp		mi. vernon, load
Cowan, Percy	BLA	30 81	Chicago
Cowgill, Clinton Harriman	A	30	Topeka, Kans.
Cox. Anna Ethel	LA (SS)	81	Sandwich
Can Claude Coulend	121 (33)	431	36 na wien
Cox, Claude Gaylord	Agr	452	Macomb
Cox, Don William	CE		Vandalia
Cox. Joseph Gilrov	BLA	32	Little Rock, Ark.
Cor Por Worfold	1	711	Domest Lock, 217k.
Cox, Anna Ethel Cox, Claude Gaylord Cox, Don William Cox, Joseph Gilroy Cox, Rex Warfield Coxle Coxing Margallus	Agr S	$71\frac{1}{2}$	Bement
Coyle, Cassius Marcellus	2.		Gridlev
Crabb. Warren Willis	Agr	551	Delavan
Craft Glenn Ewing	400	503	Durlington
C. T. L. T. L. WING	Agr EE	59	Burlington
Craig, Edward Eugene	EE		Medford, Mass.
Craig, Harold Gerrond			Mahawaat
	Agr sb		
Craig Hazel Iona A.R. 1010	Agr sp	221	Chambaian
Craig, Hazel Iona, A.B., 1910	Agr sp Mus	231	Medford, Mass. Neponset Champaign
Craig, Hazel Iona, A.B., 1910 Craig, James Orville	Agr sp Mus ME		
Craig, Hazel Iona, A.B., 1910 Craig, James Orville Craigmile, Charles James	Agr sp Mus ME		
Coyle, Cassius Marcellus Crabb, Warren Willis Craft, Glenn Ewing Craig, Edward Eugene Craig, Harold Gerrond Craig, Hazel Iona, A.B., 1910 Craig, James Orville Craigmile, Charles James Craigmile, Charles Samuel	Agr sp Mus		Neponsei Champaign Carthage Rantoul LaGrange

	00	~1	n
Craigmile, Mary	žž ,	71/2	Rantoul
Crain, Chester McElfresh Crane, Dudley Winthrope	BLA	54	Champaign
Crane, Dudley Winthrope	Agr	20	Montclair, N. J.
Crawford, Chalmers	Agr	35	Pontiac
Crawford, Chalmers Crawford, Harold Hamilton Crawford, Helen Lucile	A	137	Rochester, Minn.
Crawford, Helen Lucile	S	29	Shawnee, Okla.
Crebs, John Powell Creighton, Edward Woodin	Agr	20	Carmi
Creignton, Edward Woodin	Agr LA	38 26	Fairfield
Creighton, Mary Creighton, Mary Elizabeth Cressner, Ford Scott Criss, Edward		20 17 1	Fairfield Phocnix, Ariz.
Creighton, Mary Enzabeth	Agr (SS) BLA	1/3	
Criss Edward	SS	121	Plymouth, Ind. Chambersburg
Crissey, Sumner Ellis	Agr sp	127	Galesburg
Che of Edward Dornard	ME SP	110	Summit
Crittenherger George Dale	LA	69	Anderson, Ind.
Crittenberger, George Dale Croak, John Elmer Croce, Michele Francesco Croll, Hilda Marion Croll, Paul Revere	ĈË	0)	Decatur
Croce Michele Francesco	Ch (SS)	100	Pauni-Faggia, Italy
Croll, Hilda Marion	HSLA	100	Beardstown
Croll Paul Revere	Ch	107	Beardstown
Cromwell, Myrtle Cornelia Cromwell, Wyrtle Tornelia Cromk, Clara Gladys Crooks, Harold Fordyce	HSLA	200	Parkman, Ohio
Cromwell, William Force	S	28	Frankfort, Ky.
Cronk, Clara Gladys	HSAgr	68	Aurora
Crooks, Harold Fordyce	ME	118	Chicago
Crosby, Henry Fay	Agr sb	15	Detroit, Mich.
Crosby, Henry Fay Crose, John Otis	Agr sp Agr (SS)	621	Thorntown, Ind.
Crossland, George Marshall, A.B.,	- 0 ()		
1901	BLA	159 2-3	Sheldon
Crossland, Viola June	HSAgr (SS	951	Sheldon
Crow, DeWitt Smith Crow, Jennie	MnE (SS)	64	Chatham
Crow, Jennie	SS	4 ½	Martinsville
Crowder, Benjamin Harrison	L	62	Bethany
Crowe, Robert Burbank	\boldsymbol{A}	48	Columbus, Ind.
Crowson, Edward Robert	BLA	90	Fulton, Mo.
Crowson, Edward Robert Crowther, Sarah Crutchfield, William	LA		Chicago
Crutchfield, William	A_{-}	30	Chattanooga, Tenn.
Cruzan, Myrtle Amy	zs .	19	Mattoon
Cummings, Harold Lane	BLA	30	Clinton
Cummings, Harold Lane Cummins, Wesley Erett	L DI 4 (CC)	001	Olney
Cunningham, Thomas Albright Curl, Charley Edmund	BLA (SS)	98 1	Rossville
Curl, Charley Edmund	ME		Paris
Currie, Nannie	LA	25	Loda
Currier, Donald Eugene Curry, William Levi Curtis, Burton Tuttle Curtiss, George Curtius, Florence	Agr EE (SS)	401	Aurora Camp Point
Curry, William Levi	Agr	402	Decatur
Curtis, Burton Tuttle	Agr		Stockton
Curtius Florence	HSAgr		Carrollton
Cushing, Donald Frederick	BLA	46	Champaign
Cushman Ralph Farneworth	Agr	91	Sylvania, Ohio
Cushman, Ralph Farnsworth Cuthbert, Dorothy Lucile	LA	36	Gilsum, N. H.
Cutler John	ME	75	Pana
Cutshall Rudolph Walter	A	91	Brazil, Ind.
Cutler, John Cutshall, Rudolph Walter Cutting, Harold Stothard	ME	37	Rockford
Cylkowski, Vincent Dominic	CE	42	Chicago
Czapler, Max	Ch	36 1	Chicago
Dace, Fred Edwin	EE	74	Rushville
DaCosta, Harold Fonseca	$_{CE}^{L}$		Chicago
Dahringer Homer Walston	CE	108	Waukegan
Dainty, Chester Oakley Lalbey, Everett Leslie	Agr sp		St. David
Dalbey, Everett Leslie	L	57	Muncie
Dale, Hervey Miller	BLA (SS.	98	Winnetka
Dale, Hervey Miller Dallenberg, Clarence Dallenbach, Grace Belle	AE		So. Holland
Dallenbach, Grace Belle	HSLA		Champaign
	EE	77	Champaign
Dalton, Meta Daly, Samuel Lester	ss		Cleburne, Texas
Daly, Samuel Lester	A	99	Metropolis
Daly, Thistle Margaret Agnes	LA	27	Urbana

Dammers, John William Danielson, Ralph Raymond	Cer (SS)	59	Chicago
Danielson Dalah Daymand	Cer	68	
Danielson, Kalph Kaymond		00	Chicago
Danner, Ralph Raymond Danner, Ralph Danz, Harry Otto Dare, Harrison Newell Darrah, Howard Alexander Darrah, Juanita Elizabeth	Agr sp		Astoria
Danz Harry Otto	ME	75	Peru
Dallz, Harry Otto	222	,,,	
Dare, Harrison Newell	LA		Danville
Darrah Howard Alexander	Md	23	Champaign
Darran, Howard Trickander	22.0		
Darrah, Juanita Elizabeth	S ChE	103	Champaign
Dass, Banesvar	ChF		Bengal, India Lima, Peru
	9,12		Dengar, India
Dasso, Luis	A		Lima, Peru
Dauberman, Margaret Lucile Daugherty, Hale Plahn Davidson, Allen Mayer Davidson, Mayme Davies, Raymond Evan Davis, Allen Winslow	LA	31	Mansfield
Dauberman, Idaigaree Buene	DI 4 (CC)	7.5	
Daugherty, Hale Plann	BLA (SS)	69	Peoria
Davidson Allen Mayer	CE	2	So. Bend, Ind.
Davidson, Inich Majer	22	3,1	
Davidson, Mayme	CE SS Md	3 1	Marshall
Davies Raymond Fran	MA	66	Bement
Davies, Maymond Livan			
Davis, Allen Winslow	Agr	104	Maywood
Davis, Allen Winslow Davis, Chester Emmons Davis, Chester Watson	Agr sp	111	Urbana
Davis, Chester Limitons	2191 Sp	112	O' Ou nu
Davis, Chester Watson	Agr	111	Holton, Kans.
Davie Clara Flizabeth	Mus		Urbana
Davis, Clara Litzabeth			
Davis, Clara Elizabeth Davis, Edward Chester Davis, Miss Frank Harris Davis, Harry Roscoe Davis, Mallie Leona Davis, Paul Newhall	S		Holton, Kans.
Davie Mice Frank Harris	Agr sp		Vincennes, Ind.
Davis, Miss Flank Harris	2191 Sp		
Davis, Harry Roscoe	A		Anna
Davis Mallie Leona	LA	100	Fairmount
Davis, Maine Leona			I dir mount
Davis, Paul Newhall	Agr	30 1	Arlington Heights
Davis, Rupert Foster Davis, Samuel Sylvester Davis, Thomas Andrew	S	-	Atlanta Ga
Davis, Rupert Poster	٥,		Atlanta, Ga.
Davis, Samuel Sylvester	Agr CE	41	Newport
Davie Thomas Andrew	CE		Betkany
Davis, Inomas Indica	CL.		
	Agr	31 1	St. Louis, Mo.
Davison Buth Leone	LA	97	Marshall
Davison, Ruch Leone	LA	21	
Dawson, Francis Anderton	MSE sp		Reynolds
Dawson Helen Mamie	TA	32	Morris
Davison, Ruth Leone Dawson, Francis Anderton Dawson, Helen Mamie	LA		
Dawson, Salue	LA SS	7 1	Marshall
Day Anna Edith A.B. (Illinois		-	
Day, Anna Edith, A.B., (Illinois Coll.) 1907, A.M., 1908 Day, Phillmer Wymond			- · · · · · · · · · · · · · · · · · · ·
Coll.) 1907, A.M., 1908	SS ChE (SS) CE		Jacksonville
Day Dhillman Wamand	CLE (SC)	105	Indianapolis, Ind.
Day, Fillinger Wymord	Cht (33)	103	
Deakman, Homer Ward	CE	37	Chicago
Doon Postrice Farle	LA (SS)	7	Harrisburg
Dean, Beatrice Earle Dean, Olive Gertrude	LA (33)	/	
Dean. Olive Gertrude	LA		Harrisburg
Decker, Benjamin Harrison Decker, Dorothy Mary Deets, Harold Burton	EE	33	Brazil, Ind.
Decker, Benjamin Harrison		33	
Decker, Dorothy Mary	LA		Urbana
Doots Hamald Burton	Agr	897	Calashama
Deets, Harold Burton	Ayı		Galesburg
DeForest, Lemuel	ME	80	Toledo, Ohio. Kansas City, Mo.
Dogen Albert Custon	AE		Kanaga City Ma
Degen, Ameri Gustav	45		Runsus City, 210.
DeForest, Lemuel Degen, Albert Gustav Deiss, William Charles	AE EE	27	Carlinville
Dollard Fort	BLA		Foosland
DeLong, Willard Earl DeLony, Lawson Leonard			
DeLony, Lawson Leonard	A	68	Little Rock, Ark.
Demorath LaPov	ME		
Demerati, Lekty			
			Kewanec
Demlow, Lester Christopher	SS		
Demlow, Lester Christopher	SS	63	Kewanec Champaign
Demlow, Lester Christopher DeMott, Roy VanLiew	SS BLA	63	Kewanec Champaign Crookston, Minn.
Demerath, LeRoy Demlow, Lester Christopher DeMott, Roy VanLiew Dempster, Charles	SS BLA ME		Kewanec Champaign
Demlow, Lester Christopher DeMott, Roy VanLiew Dempster, Charles Demuth, Jack Erwin	SS BLA ME		Kewanec Champaign Crookston, Minn. Chicago
Demlow, Lester Christopher DeMott, Roy VanLiew Dempster, Charles Demuth, Jack Erwin	SS BLA ME	43	Kewanec Champaign Crookston, Minn. Chicago St. Louis. Mo.
Demlow, Lester Christopher DeMott, Roy VanLiew Dempster, Charles Demuth, Jack Erwin Denison, Sidney Alexander	SS BLA ME CE SS	43	Kewanec Champaign Crookston, Minn. Chicago St. Louis, Mo. Keokuk, Iowa
Demlow, Lester Christopher DeMott, Roy VanLiew Dempster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth	SS BLA ME CE SS	43	Kewanec Champaign Crookston, Minn. Chicago St. Louis, Mo. Keokuk, Iowa
Demlow, Lester Christopher DeMott, Roy VanLiew Dempster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth	SS BLA ME CE SS HSLA	43	Kewanec Champaign Crookston, Minn. Chicago St. Louis, Mo. Keokuk, Iowa Aurora
Demlow, Lester Christopher DeMott, Roy VanLiew Dempster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline	SS BLA ME CE SS HSLA LA	43	Kewanee Champaign Crookston, Minn. Chicago St. Louis, Mo. Keokuk, Iowa Aurora Maywood
Demlow, Lester Christopher DeMott, Roy VanLiew Dempster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma	SS BLA ME CE SS HSLA LA	43	Kewanee Champaign Crookston, Minn. Chicago St. Louis, Mo. Keokuk, Iowa Aurora Maywood
Demlow, Lester Christopher DeMott, Roy VanLiew Dempster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma	SS BLA ME CE SS HSLA LA Mus	43	Kewanee Champaign Crookston, Minn. Chicago St. Louis. Mo. Keokuk, Iowa Aurora Maywood Lincoln
Demlow, Lester Christopher DeMott, Roy VanLiew Dempster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward	SS BLA ME CE SS HSLA LA Mus LA	43 8 13 24 67	Kewanec Champaign Crookston, Minn. Chicago St. Louis, Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur
Dempster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward	SS BLA ME CE SS HSLA LA Mus LA	43 8 13 24 67	Kewanec Champaign Crookston, Minn. Chicago St. Louis, Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur
Dempster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward	SS BLA ME CE SS HSLA LA Mus LA EE	43 8 13 24 67	Kewanec Champaign Crookston, Minn. Chicago St. Louis, Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur Morgan Park
Dempster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward	SS BLA ME CE SS HSLA LA Mus LA EE BLA	43 8 13 24 67	Kewanee Champaign Crookston, Minn. Chicago St. Louis. Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur Morgan Park St. Louis, Mo.
Dempster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward	SS BLA ME CE SS HSLA LA Mus LA EE BLA	43 8 13 24 67	Kewanee Champaign Crookston, Minn. Chicago St. Louis. Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur Morgan Park St. Louis, Mo.
Dempster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward	SS BLA ME CE SS HSLA LA Mus LA EE BLA ME	43 8 13 24 67 37 26 75	Kewanee Champaign Crookston, Minn. Chicago St. Lowis. Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur Morgan Park St. Louis, Mo. Ishpeming, Mich.
Dempster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward	SS BLA ME CE SS HSLA LA Mus LA BE BLA ME BLA	43 8 13 24 67 37 26 75 20	Kewanee Champaign Crookston, Minn. Chicago St. Louis. Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur Morgan Park St. Louis, Mo. Ishpeming, Mich. Rockford
Dempster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward	SS BLA ME CE SS HSLA LA Mus LA BE BLA ME BLA	43 8 13 24 67 37 26 75 20	Kewanee Champaign Crookston, Minn. Chicago St. Louis. Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur Morgan Park St. Louis, Mo. Ishpeming, Mich. Rockford
Dempster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward	SS BLA ME CE SS HSLA LA LA EE BLA ME BLA ME BLA HSLA	43 8 13 24 67 37 26 75	Kewanee Champaign Crookston, Minn. Chicago St. Louis. Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur Morgan Park St. Louis, Mo. Ishpeming, Mich. Rockford Kenosha, Wis.
Dempster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward	SS BLA ME CE SS HSLA LA Mus LA EE BLA ME BLA HSLA HSLA LA	43 8 13 24 67 37 26 75 20 61	Kewanee Champaign Crookston, Minn. Chicago St. Louis, Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur Morgan Park St. Louis, Mo. Ishpeming, Mich. Rockford Kenosha, Wis. Urbana
Dempster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward	SS BLA ME CE SS HSLA LA Mus LA EE BLA ME BLA HSLA HSLA LA	43 8 13 24 67 37 26 75 20 61	Kewanee Champaign Crookston, Minn. Chicago St. Louis, Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur Morgan Park St. Louis, Mo. Ishpeming, Mich. Rockford Kenosha, Wis. Urbana
Dempster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward	SS BLA ME CE SS HSLA LA LA EE BLA ME BLA HSLA HSLA LA	43 8 13 24 67 37 26 75 20	Kewanee Champaign Crookston, Minn. Chicago St. Louis, Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur Morgan Park St. Louis, Mo. Ishpeming, Mich. Rockford Kenosha, Wis. Urbana Urbana
Dempster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward	SS BLA ME CE SS HSLA LA LA EE BLA ME BLA HSLA LA LA LA BLA	43 8 13 24 67 37 26 75 20 61	Kewanee Champaign Crookston, Minn. Chicago St. Lowis. Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur Morgan Park St. Louis, Mo. Ishpeming, Mich. Rockford Kenosha, Wis. Urbana Urbana Wolcott, Ind.
Dempster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward	SS BLA ME CE SS HSLA LA LA EE BLA ME BLA HSLA LA LA LA BLA	43 8 13 24 67 37 26 75 20 61	Kewanee Champaign Crookston, Minn. Chicago St. Lowis. Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur Morgan Park St. Louis, Mo. Ishpeming, Mich. Rockford Kenosha, Wis. Urbana Urbana Wolcott, Ind.
Demyster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward Derby, Sylvester Randall Detering, Oscar Casper Devine, Herbert Dewey, Ritchie Park Dewey, Vivian Persis Dexter, Grace Ella, A.B., 1911 Dexter, Lulu Belle Dibell, Harry Charles Dick, Willis Elmer	SS BLA ME CE SS HSLA LA LA EE BLA ME BLA HSLA LA LA LA BLA BLA ChE	43 8 13 24 67 37 26 75 20 61 113	Kewanee Champaign Crookston, Minn. Chicago St. Lowis. Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur Morgan Park St. Louis, Mo. Ishpeming, Mich. Rockford Kenosha, Wis. Urbana Urbana Wolcott, Ind.
Demyster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward Derby, Sylvester Randall Detering, Oscar Casper Devine, Herbert Dewey, Ritchie Park Dewey, Vivian Persis Dexter, Grace Ella, A.B., 1911 Dexter, Lulu Belle Dibell, Harry Charles Dick, Willis Elmer Dickerson, Earl Burrus	SS BLA ME CE SS HSLA LA LA EE BLA ME BLA ME BLA LA LA LA LA LA LA LA LA LA LA LA LA L	43 8 13 24 67 37 26 75 20 61	Kewanee Champaign Crookston, Minn. Chicago St. Louis, Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur Morgan Park St. Louis, Mo. Ishbeming, Mich. Rockford Kenosha, Wis. Urbana Wolcott, Ind. Ouincy St. Louis, Mo.
Demyster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward Derby, Sylvester Randall Detering, Oscar Casper Devine, Herbert Dewey, Ritchie Park Dewey, Vivian Persis Dexter, Grace Ella, A.B., 1911 Dexter, Lulu Belle Dibell, Harry Charles Dick, Willis Elmer Dickerson, Earl Burrus	SS BLA ME CE SS HSLA LA LA EE BLA ME BLA ME BLA LA LA LA LA LA LA LA LA LA LA LA LA L	43 8 13 24 67 37 26 75 20 61 113	Kewanee Champaign Crookston, Minn. Chicago St. Louis, Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur Morgan Park St. Louis, Mo. Ishbeming, Mich. Rockford Kenosha, Wis. Urbana Wolcott, Ind. Ouincy St. Louis, Mo.
Demyster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward Derby, Sylvester Randall Detering, Oscar Casper Devine, Herbert Dewey, Ritchie Park Dewey, Vivian Persis Dexter, Grace Ella, A.B., 1911 Dexter, Lulu Belle Dibell, Harry Charles Dick, Willis Elmer Dickerson, Earl Burrus	SS BLA ME CE SS HSLA LA LA EE BLA ME BLA HSLA LA LA LA ChE LA (SS) HSAgr	43 8 13 24 67 37 26 75 20 61 113	Kewanee Champaign Crookston, Minn. Chicago St. Lowis, Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur Morgan Park St. Louis, Mo. Ishpeming, Mich. Rockford Kenosha, Wis. Urbana Urbana Wolcott, Ind. Quincy St. Louis, Mo. Sparta
Demyster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward Derby, Sylvester Randall Detering, Oscar Casper Devine, Herbert Dewey, Ritchie Park Dewey, Vivian Persis Dexter, Grace Ella, A.B., 1911 Dexter, Lulu Belle Dibell, Harry Charles Dick, Willis Elmer Dickerson, Earl Burrus Dickey, Ruby Dickhut, Sherrill Edward	SS BLA ME CE SS HSLA LA LA EE BLA ME BLA HSLA LA LA LA BLA ChE LA (SS) HSAgr AE	43 8 13 24 67 37 26 75 20 61 113 28 91	Kewanee Champaign Crookston, Minn. Chicago St. Louis. Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur Morgan Park St. Louis, Mo. Ishpeming, Mich. Rockford Kenosha, Wis. Urbana Wolcott, Ind. Quincy St. Louis, Mo. Sparta Quincy
Demyster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward Derby, Sylvester Randall Detering, Oscar Casper Devine, Herbert Dewey, Ritchie Park Dewey, Vivian Persis Dexter, Grace Ella, A.B., 1911 Dexter, Lulu Belle Dibell, Harry Charles Dick, Willis Elmer Dickerson, Earl Burrus Dickey, Ruby Dickhut, Sherrill Edward	SS BLA ME CE SS HSLA LA LA EE BLA ME BLA HSLA LA LA LA BLA ChE LA (SS) HSAgr AE	43 8 13 24 67 37 26 75 20 61 113 28 91	Kewanee Champaign Crookston, Minn. Chicago St. Louis. Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur Morgan Park St. Louis, Mo. Ishpeming, Mich. Rockford Kenosha, Wis. Urbana Wolcott, Ind. Quincy St. Louis, Mo. Sparta Quincy
Demyster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward Derby, Sylvester Randall Detering, Oscar Casper Devine, Herbert Dewey, Ritchie Park Dewey, Vivian Persis Dexter, Grace Ella, A.B., 1911 Dexter, Lulu Belle Dibell, Harry Charles Dick, Willis Elmer Dickerson, Earl Burrus Dickey, Ruby Dickhut, Sherrill Edward	SS BLA ME CE SS HSLA LA LA EE BLA ME BLA HSLA LA LA LA BLA ChE LA (SS) HSAgr AE	43 8 13 24 67 37 26 75 20 61 113	Kewanee Champaign Crookston, Minn. Chicago St. Louis, Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur Morgan Park St. Louis, Mo. Ishpeming, Mich. Rockford Kenosha, Wis. Urbana Urbana Urbana Wolcott, Ind. Quincy St. Louis, Mo. Sparta Quincy Sidell
Demyster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward Derby, Sylvester Randall Detering, Oscar Casper Devine, Herbert Dewey, Ritchie Park Dewey, Vivian Persis Dexter, Grace Ella, A.B., 1911 Dexter, Lulu Belle Dibell, Harry Charles Dick, Willis Elmer Dickerson, Earl Burrus Dickery, Ruby Dickhut, Sherrill Edward Dickinson, Ruth Marguerite Dickson, George Thornton Francis	SS BLA ME CE SS HSLA LA LA EE BLA ME BLA HSLA LA LA LA LA BLA ChE LA (SS) HSAgr AE HSAgr S	43 8 13 24 67 57 26 75 20 61 113 28 91	Kewanee Champaign Crookston, Minn. Chicago St. Louis. Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur Morgan Park St. Louis, Mo. Ishpeming, Mich. Rockford Kenosha, Wis. Urbana Urbana Wolcott, Ind. Quincy St. Louis, Mo. Sparta Quincy Sidell St. Louis, Mo.
Demyster, Charles Demuth, Jack Erwin Denison, Sidney Alexander Denney, Helen Ruth Dennis, Mabel Evangeline Denny, Maude Aroma Denz, Raymond Edward Derby, Sylvester Randall Detering, Oscar Casper Devine, Herbert Dewey, Ritchie Park Dewey, Vivian Persis Dexter, Grace Ella, A.B., 1911 Dexter, Lulu Belle Dibell, Harry Charles Dick, Willis Elmer Dickerson, Earl Burrus Dickey, Ruby Dickhut, Sherrill Edward	SS BLA ME CE SS HSLA LA LA EE BLA ME BLA HSLA LA LA LA BLA ChE LA (SS) HSAgr AE	43 8 13 24 67 37 26 75 20 61 113 28 91	Kewanee Champaign Crookston, Minn. Chicago St. Louis, Mo. Keokuk, Iowa Aurora Maywood Lincoln Decatur Morgan Park St. Louis, Mo. Ishpeming, Mich. Rockford Kenosha, Wis. Urbana Urbana Urbana Wolcott, Ind. Quincy St. Louis, Mo. Sparta Quincy Sidell

Dieppenbacher, Martha Mitchell	<u>ss</u>	$10\frac{1}{2}$	Havana
Distriction Clarence Bisham	BLA	102	
Dietmeier, Clarence Richard Dietzer, Alice Margaret Diggs, Charles Henry			Winslow
Dietzer, Alice Margaret	HSLA	30	LaGrange
Diggs, Charles Henry	Agr		Clear Lake, Ia.
Dillares Facal Boss	LA	34	
Dillavou, Essel Ray Dillavou, Roscoe Clarke	LA		Champaign
Dillavou, Roscoe Clarke	L	57	Champaign
Dille, Lavinia Faye	HSAgr		Grand Ridge
Diller Charter Charles	2.0.19	140	
Dillon, Chester Charles Dillon, Owen O'Neil	Ş	142	Normal
Dillon, Owen O'Neil	L sp		Shipman
Dilloorth, James Russell Dilloorth, James Russell Dingledine, Ira Wilbur Dirks, Bernhard Ernst George Dirst, Wendell Fletcher Dirk Farl Losenh	Agr	115	Table Grove
Directeding Too Willer	SŠ		Da nin
Dingledine, Ira Wilbur	သို့သ	112	Peoria
Dirks, Bernhard Ernst George	\boldsymbol{A}	<i>57</i> 2	Dresden, Germany
Dirst Wendell Eletcher	Agr ch		Minooka
Dia Faul Land	DE CCC	2.2	
Dix, Earl Joseph	Agr sp EE (SS) BLA	33	Morseilles
Doane, Harry Charles	BLA	7	Newton, Iowa
Dobbins Verne Foster	EE	40	Urbana
D. 11- E	7.4		
Dodds, Eva	LA	60	Champaign
Doane, Harry Charles Dobbins, Verne Foster Dodds, Eva Dodds, Lois Ellen	LA LA		Champaign
Dodds, Marie Marguerite	T A	51	Champaign
Dodgs, Marie Marguerre	DD.	31	Champaign
Doage, Hovey Worsdell	EE		So. Bend, Ind.
Dodge, Margaret Rapelve	LA		Champaign
Doemling Leo William	ME	19	Chicago
Doenning, Leo winiam	ATE		
Dodge, Hovey Worsdell Dodge, Margaret Rapelye Doemling, Leo William Doerr, Harold Francis	AE	112	Chicago
Doherty, Francis Laurence	Agr		Urbana
Doing Edward Adolhant	Md	0.0	Chambaian
Doisy, Edward Adelbert	IVI U	80	Champaign
Dole, Ethel Mary	HSAgr	46	Manteno
Doherty, Francis Laurence Doisy, Edward Adelbert Dole, Ethel Mary Dole, Leslie Abijah	EE	108	Manteno
Dones - Tuestin Alemaine	GE (CC)		
Domas, Justin Aloysius	EE (SS)	64	Shelbyville
Donahoe, John Thomas Donaldson, Clyde Wellington Donaldson, Elyzabeth Frances	EE (74	Chicago
Donaldson Clyde Wellington	Md	431	Springfield
Donaldson, Olyde Wellington	CC	1007	Tini
Donaldson, Elyzabeth Frances	SS	$100\frac{1}{2}$	Urbana
	Agr		Polo
Donaldson, Helena Josephine	Ag r SS	21/2	Urbana
Donaldson, Helena Josephine	ME		
Donnell, Allan Douglas	ME	37	Mattoon
Donoran, James Leslie Donovan, James Leslie Doocy, Clara Louise Dooley, Hubbard Errette Dooley, Irene Dorr, Mabery Iris Dorris, Sylvanus Alpheus Dorsey, William Eugene Dougan Frances Bernice	SS SS		Champaign
Doggy Clara Louisa	22	18	Pittsfield
Doocy, Clara Louise	77.4		1 titisjietu
Dooley, Hubbard Errette	BLA	69	Rock Island
Dooley, Irene	LA		Baton Rouge, La.
Done Mohony Inic	Mus		Rantoul
Doll, Madely Ilis			
Dorris, Sylvanus Alpheus	SS	7 2	Urbana
Dorsey, William Eugene	BLA		Robinson
Dougan, Frances Bernice	HSLA		Urbana
Dougan, Trances Dermee	nsLa		
Dougherty, Horace Gladstone Douglas, Raymond Thomas	SS	8 1	Washington
Douglas, Raymond Thomas	ME	$101\frac{1}{2}$	Southampton, Mass.
Dow, Harvey Richard	BLA	2022	Geneva
Dow, Harvey Richard			
Downey, Durbin Ralph Downing, Toliver Mac	EE		Sheffield
Downing, Toliver Mac	Þ		Macomb
Doule John Francis	BLA		Champaign
Doyle, John Francis	PE		
Doyle, John Francis Dralle, Henry Edward	EE		Coatsburg
Dresser, Myron Amos	BLA		New Berlin, N. Y.
Draw Edgar Mathan	A	110	Watseka
Dresser, Myron Amos Drew, Edgar Nathan Drew, Mildred Evangeline			
Drew, Mildred Evangeline	LA	21	Joliet
Drew. Nellie Blanche	HSAgr		Slater, Mo.
Droste, Louis Anthony Dubin, George Harold Dubin, Henry	BLA	26	Grand Rapids, Mich.
Dioste, Louis Anthony		20	
Dubin, George Harold	\boldsymbol{A}	76	Chicago
Dubin, Henry	\boldsymbol{A}	39	Chicago
Dubois, Henri	Agr sp SS HSLA	115	Utrecht, Holland
Dubois, Helli	CC Sp		
DuBois, Lucille	33	8	East Peoria
DuBois, Martha Harriett	HSLA	34	Eldorado
DuBois, Lucille DuBois, Martha Harriett DuFrain, Frank James DuHadway, Fred Alan Dummer, James Byron	LA (SS)	68	Momence
Duriam, Flank James	- La (33)	00	
Dunadway, Fred Alan	L L		Jerseyville
Dummer, James Byron	L		Chicago
Duner, Swen	Agr	331	Wheaton
Donner Con 1' - Day	T 4	222	O-L DL
Dungan, Cornenus Peter, Jr.	LA		Oak Park
Dunham, Lawrence Henry	ChE	34	LaSalle
Dungan, Cornelius Peter, Jr. Dunham, Lawrence Henry Dunham, Raymond Starr Dunham, Richard	Agr	99	Chicago
Dunham Dishaud	P.P.		
Dunnam, Richard	EE	37	Vinton, Iowa

Dunlap, David Woods Dunlap, Effie Charlotte Dunlap, Fanny, Ph.B. (Univ. Iowa)	Agr LA	69 52	O'Fallon, Mo. Urbana
1905	Lb	33	O'Fallon, Mo.
Dunlap, Francis Ellsworth	AE		Maywood
Dunlap, Matthew Elbridge Dunlap, William Guy Dunn, Elizabeth Moore Dunn, Wilbur Galen	AE BLA	67	Maywood
Duniap, William Guy	LA	56	Abingdon Bellflower
Dunn, Elizabeth Moore	AE	72	Onaga, Kans.
Dunii, Wilbui Galen	HSLA	32	Chicago
Dupuy, Genevieve Durr, Samuel Abraham	ME	32	Chicago
Dutton, Marshall Simeon		36	Oak Park
Dyar, Herbert Lee	CE SS	• •	Low Point
Dyrenforth, Lucien Young	Agr		Oak Park
Dysart, Benjamin Quincy	S		Granville
Eade, Ben Cooper	Agr		Elizabeth
Eade, Gladys	LA	98	Elizabeth
Eales, Henry Clarence	Agr	97	Bloomington
Early, Recia Wilma	SS	4 1/2	Tuscola
Earhart, Charles Martin	A	40	Chrisman
East, Bess	LA		Anderson, Ind.
Eaton, Rex Carr	Agr sp	.,	Greeley, Colo.
Eaton, William John	SS	16	Vandalia
Eberhart, Myra Ebersole, Elmer Tryon, A. B., 1902	HSLA Agr (SS)	89 142 1	Newton, Ia.
Ebersole, Elmer Tryon, A. B., 1902	Agr (33)	57	Ottawa Peoria
Eckstein, Henry Charles	Ch LA	33	Copenhagen, N. Y.
Edgar, Edith	HSS (SS)	891	Balbec, Ind.
Edmundson, Jessie Fay Edwards, Adrian Clair Edwards, Morgan Fred, Jr.	LA	0/2	Roodhouse
Edwards, Adrian Clair	Agr		Chicago
Eggert Glenn Hallis	EE		Canton
Ehrhart, Raleigh John	EE	108	Arcola
Ehrhart, Raleigh John Eicher, Eugenia	HSAgr		Chicago
Eide, Alwin Clyde	ChE	32	Lee
Eisner, Mrs. Albert J., B.Mus., 1908	Mus sp		Champaign
Ekstrand, Henry Emanuel	A_{\perp}	25	Wankegan
Elberson, Georgia	SS	8	Perrysville
Eliason, Rolla Jasper	Agr sp	411	
Elles, Edward Charles	BLA	32	Herrin
Elliott, Arthur Roland Elliott, Dana Milton Elliott, Edna Elizabeth	Agr		Tonica Matteson
Elliott, Dana Milton	Cer SS	$18\frac{1}{2}$	Savanna
Filiott Cartruda Louisa	HSAgr	101	Tonica
Elliott, Gertrude Louise Elliott, Ivan Arvel Ellis, Charles Joseph	Cer	32	Crossville
Filis Charles Tosenh	LA	0.2	Springfield
Ellis, Frances Irene	HSLA		Altamont
Ellis, George Curtis	Md	58	Altamont
Ellis, George Curtis Ellis, Harvey	BLA		Evanston
Ellithorpe, Ilina Almeda	HSS		Genoa
Elmendorf, Armin	ME	91	San Antonio, Texas
Elston, Alexander Elston, Leo Weiss	Md	138	Wheeling, Va.
Elston, Leo Weiss	S	100	Wheeling, W. Va.
Elton, Alexander Stuart Emigh, Hazel Lenore	ME		Oak Park
Emigh, Hazel Lenore	LA	26	Knox, Ind.
Emmond, Wyatt Goen	BLA	30	LaGrange
Engle, Jeanette Morrison	LA	49	Urbana
Engle, Jeanette Morrison Engle, Ralph Nelson Englis, Duane Taylor, A.B. (Eureka	Agr	77	Urbana
Coll.) 1912	SS	8	Eureka
English Hubert Morton	Md	68	Urbana
English, Hubert Morton English, Lloyd Hayden	Md	21	Chicago
Eninger, Helen Marie	LA (SS)	60	Cisna
Ennis, Collistus James	BLA	72	Chicago
Ensign, Newton Edward, A.B. (Oxford Univ.) 1908, B.S., 1911			
ford Univ.) 1908, B.S., 1911	SS		Urbana
Eppinger, John George	LA (SS)	8	Quincy

Eppsinger, Marie Anna	LA (SS)		Quincy
Epstein, Arthur Louis	MSE	105	Bloomington
Eriksen, Julia Louise	LA (SS)	53	Newark
Ermeling, Lewis Brown	ME	114	Chicago
Ernest, Ruth	LA (SS)	$31\frac{1}{2}$	Urbana
Ermeling, Lewis Brown Ernest, Ruth Ernst, Carl Paul	CE \	6	Chicago
Ernst, Elmore George	A		Visalia, Calif.
Erwin, Clinton Otis	EE sp		Macomb
Erwin, Clinton Otis Erwin, Walter Boynton	BLA	30	Chicago
Eschauzier, Louis	Agr sp	25½	S. Luis Potosi, Mex.
Escobosa, Guillermo Filiberto	Agr	106	Guadalajara, Mex.
Eslick, Leo	ME	39	Lead, S. D.
Essington, Arthur Vernon	L	28	Clifton
Estes, Earl Carter	$\overline{L}A$		Richmond, Mo.
Etherton, James Everette	\overline{L}	52	Carbondale
Etherton, James Everette Etienne, Leonard Arthur	$\widetilde{E}E$	V.	Centerville Station
Evans, Arthur Thompson, A.B., 1912 Evans, James Miles	SS		Champaign
Evans, James Miles	LA		Chicago
Everhart, Philip Hiram	LA		Champaign
Everhart, Philip Hiram Eyman, Ralph Lee	Age (CC)	57	Golden
Fackler, Orpheus A	Agr (SS) SS	8	Erie
Fackler, Orpheus A. Fackler, Walter Valentine Fagan, Ona Mary	7	0	
Fagan One Mary	L SS SS	34	Champaign Banting
Fager, Daniel Baldwin	22		Pontiac
Fager, Frank Daniel	EE	30 €	Vandalia
Fahrnkopf, Emma Margaret		121	Vandalia
Farming Harrison Fred Theaders	HSS (SS)	108	Urbana
Fairhoules Doubles Westers	Agr	$120\frac{1}{2}$	Urbana
Fairob a Post	Agr	0.7	Chicago
Farnkopf, Harrison Fred Theodore Fairbanks, Berthier Wesley Fairch.u, Bert Fairchild, Donald Hurlstone	Agr	26	Danville
Pairente, Donaid Huristone	3	24	Paxton
Fairfield, Helen Fajardo, Euripides y M.	HSLA	74	Chicago
Fallia Mantin Chain	CE (SS)		S. Luis Oriente, Cuba
Fallis, Myrlin Stein	AE	70	Denver, Colo.
Fancher, Hazel Elizabeth Farlow, Samuel James Farmer, Orena	LA	107	Evanston
Farrow, Samuel James	AE	$75\frac{1}{2}$	Augusta
Farmer, Orena	LA		Belleville
Farnham, Albert Ayrton	ME		Westfield, Mass.
Farthing, Chester Harold, B.S. (Mc- Kendree Coll.) 1909			
Kenaree Coul.) 1909	L	57	Odin
Farthing, William Dudley Paul, B.S.	-		
(McKendree Coll.) 1909	L	59	Odin
Farwell, Stanley Prince, B. S., 1907, M.S., 1910 Fasold, Miriam Rebecca Fast, Clarence Mortimer Faulkner, Fay Edward			
M.S., 1910	<u>SS</u>		Chicago
Fasold, Miriam Rebecca	LA	2	St. Louis, Mo.
Fast, Clarence Mortimer	E E		Tulsa, Okla.
Faulkner, Fay Edward	S	31	Champaig n
Faulkner, Leslie William	EE	74	Champaign
Faurot, Judd Preston	EE	108	Danville
Faulkner, Leslie William *Faurot, Judd Preston Faurote, Guy Columbus Fedde, Ruth Catharine	\boldsymbol{A}	35	Niles, Mich.
Fedde, Ruth Catharine	HSLA	22	Peotone
Fehrman, Claribel Fehrman, Florence Feldman, Joseph Elmer	S	117	Pekin
Fehrman, Florence	LA	32	Pekin
Feldman, Joseph Elmer	Agr	$31\frac{1}{2}$	Morrison
	ME (SS)	36	Milmine
Feller, George Capron Fellows, Tames Daniel Felmiey, Mildred Helen Felter, Mary Emma	CerE		Kansas City, Mo.
Fellows, James Daniel	BLA	421	St. Charles
Felmley. Mildred Helen	LA	103	Normal
Felter, Mary Emma	HSLA		Eureka
Ferguson, Clarence Milford Ferguson, Cleveland Frank	A	34	Charles City, Ia.
Ferguson, Cleveland Frank	Agr		Annawan
rerguson, Florence Roxana	HSLA		Annawan
Ferguson, Jean May	SS	22	Chicago
Ferguson, Jean May Ferguson, Louis Smith	ME	125	Annawan
Fernandez, Carlos S	Agr	31	Chihuahua, Mex.

^{*}Deceased Oct. 1, 1912.

Ferrell Cyrus Porter	EĒ		El Paso
Ferrell, Cyrus Porter Ferrell, Dent Ferrell, Raymond Pola	EE (SS)	$113\frac{1}{2}$	Carterville
Ferrell, Raymond Pola	MA	27	Harrisburg
Fetherston, James Edward	Md (SS)	20	Chicago
Fetherston, John Moffat	EE (SS)	74	Chicago
Fetherston, James Edward Fetherston, John Moffat Feutz, Frank Christian	Md (SS) EE (SS) CE HSLA	74	Olney
Fickett, Elizabeth Dean	HSLA		Chicago
Field, Roswell Francis	S	50½	Port Lavoca, Tex.
Fielder, William Fuller Fienhold, William	S.	83	Chicago
Fienhold, William	Agr LA (SS)	60	Pontiac New York City
Fiero, Elmer Ellsworth	LA (33)	09	Urbana
Fifield, Clarence Eugene	LA L (SS)	15	Urbana
Finfrock, Chancy Lawrence	AE (33)	13	Lawrence, Mass.
Finn, Edmund Matthew Finney, Stella Belle	SS	$7\frac{1}{2}$	Bismark
Firebaugh, Richard David	EE	* 2	Robinson
Fischer, Ferdinand August Paul	ĀĒ	1471	Chicago
Fischer, Henry Laurence, A.B.			
Fischer, Henry Laurence, A.B. (Wheaton Coll.) 1910	ME (SS)	134	Wheaton
Fischer, Walter Rathfon	Md		Chicago
Fish Inlian Lorensbury	Agr	3 3	Chicago
Fisher, Abigail Eliza	LA	50	Geneseo
Fisher, Abigail Eliza Fisher, Benjamin Sidney Fisher, Erwin Fisher, Erwin Fisher, Eva Josephine	L	52	Anderson, Ind.
Fisher, Erwin	BLA	6	Chicago
Fisher, Eva Josephine	LA	88	Champaign
Fisher, Helen Vastine Fisher, Walter Lloyd	LA		Geneseo
Fisher, Walter Lloyd	ŖĊĔ	92	Union City, Ind.
Fishleigh, Gladys Ryder Fisk, Roy Vincent	L.4	60	Chicago
Fisk, Koy Vincent	Agr sp		Prophetstown Benton
Fitzgerrell, Sylvester Stanton Fitzpatrick, James Charles	Agr CerE	27	Bessemer, Ala.
Fleck, Arthur William	A	6	Indianapolis, Ind.
Fleig, Frederic Raymond	BLA	60	Belleville
Fletcher Charles Harrison	L	54	Ridgefarm
Fletcher, Charles Harrison Fletcher, John Archibald Fletcher, O Frank	.Agr	75	Chicago
Fletcher, O Frank	I.A		Ridgefarm
Flickinger, Pauline Elizabeth	LA (SS)	11	Atwood
Flodin, Harold Leo	ME	42	Chicago
Flodin, Harold Leo Flood, Wilber Earl	CE	110	Peoria
Flowerree, Trennace	Agr	100	Easton
Fly, Vivienne Elizabeth	LA		Mt. Vernon
Fogg, Alden Knowlton	CE	37	McConnell
Fong, Gooey Yue Fong, Mon Charles	CE CE		Canton, China Canton, China
Fong, Mon Charles	LA	34	Momence
Fontaine, Everett Orren	Agr	29 1	Geneva
Ford, Albert Gallatin Ford, Edith Harley, Ph.B. (Univ.	2197	272	deneed
Chicago) 1910	Lb	32	Rockford
Ford, Everett Porter	ME	18	Galva
Ford, Nellie Corev	BLA	4	Rockford
Fordtran, Arthur Edmund Forkey, Mildred Lillian	BLA		Blue Island
Forkey, Mildred Lillian	HSAgr		Prophetstown
Fornoff, Gustav George	EE	120	Chicago
Fornoff, Gustav George Forster, William Edmund	Agr		Chicago
Forsythe, Lawrence Gibson	CE	$1\frac{1}{2}$	Kansas City, Mo.
Fort, Lyman Marion	S EE	101	Stronghurst
Forty, Frank Alfred	S EE BLA Agr sp A EE sp	37	Chicago
Foster, Donald DeVere Foster, Edward Burdell Foster, Edmond Roy Foster, Frank Ward	BLA	201	Boswell, Ind.
Foster, Edward Burdell	Agr sp	201	Aurora Melrose Park
roster, Edmond Koy	EE ab	10	41
Foster Harry I levellyn	EE sp AE	1141	Milwaukee, Wis.
Foster, Harry Llewellyn	Agr (SS)	20	Sac City, Iowa
Foster, Ora French	AE Agr (SS) Agr	711	Paxico, Mo.
Foster, John Raymond Foster, Ora French Foucht, Cecil Roy	EE	- 2	Rutland
Foulke, Claude Clifton	\overline{BLA}		Worthington, Ind.

Fowler, Leland Stanford Fowler, Wiley Marion	S		Penfield
Fowler, Wiley Marion	LA	37	Penfield
Fox, David Leroy	Agr sp		Palestine
Fox, James Leslie	MSE		Englewood, N. J.
Fragoso, Gilberto	CE		Durango, Mex.
Frail, James Eddis	SS	$11\frac{1}{2}$	La Fayette
Frailey, Lester Lugene Francis, Fred David	LA	81	Urbana
Francis, Fred David	2 .	8	Bridgeport, Ind.
Francis Helen Elizabeth	LA		Wyoming
Francke, Hallie Herman Frank, William Leonard Franzen, Theodore John Fraser, Mrs. Alice Eaton Fraser, Reginald Simon	Agr sp	$10\frac{1}{2}$	Thomson
Frank, William Leonard	SS	112	Carthage
Franzen, Theodore John	AE (SS)	117	Peoria
Fraser, Mrs. Alice Eaton	Mus sp		Aurora
Fraser, Reginald Simon	CE		Lead, S. D.
Frayer, Disk Sylvester	CE (SS)	64	Maywood
Frazee, Anna Dora	LA	16	Morveaqua
Frayer, Disk Sylvester Frazee, Anna Dora Frazee, Russell Card	Agr	661	Morris
Frazer, George Carlyle	Agr	321	Lockport
Frazier, James B, Jr. Frazier, Philip Freark, Parke West Freels, John William	Agr (SS)	46	Paris
Frazier, Philip	ME	31	Aurora
Freark, Parke West	MSE		Springfield
Freels, John William	LA		E. St. Louis
Freeman, Herbert Verne	A	24	Indianapolis, Ind.
Freeman, Marie	HSS	102	Decatur
Freeman, Marie Freeman, Ruth Mae French, Guy Russell	LA	951	Bloomington
French, Guy Russell	SS.	16½	Eureka
French, Henry Helm French, Ralph Waldo	RME	80	Chicago
French, Ralph Waldo	Agr	63	Magnolia
Friendo, Sidney Fritchey, Theodore Augustus, Jr. Froebe, Elmer Nicholas	<u>CE</u>		Chicago
Fritchey, Theodore Augustus, Jr.	BLA	104	Olney
Froebe, Elmer Nicholas	Agr	1	Chatsworth
Prophica Hugo Perginang	EE	353	St. Louis, Mo.
Froyd, Melvin Frankford	Md	41	Paxton
Froyd, Melvin Frankford Fruin, Elizabeth Fry, Albert Stevens Fry, Ellwood Ray	HSS	101	El Paso
Fry, Albert Stevens	CE	108	Urbana
Fry, Ellwood Ray	Agr	51	Rock Island
Fulks, Harry Cathin	BLA	101	Beardstown
Fuller, Clarence Malcolm	MSE	107	Lawrenceville
Fuller, Clarence Malcolm Fuller, Harold Coulon Fuller, Orville Melvin	A	34	Indianapolis, Ind.
Fuller, Orville Melvin	Agr	20	Beardstown
Fullerton, Theron Bushnell	Agr	39	Ottawa
Fulton, Guy Chandler Fulton, Roy Abbott	$\frac{A}{\Gamma}$	39	Warsaw
Fulton, Roy Abbott	EE A		Springfield, Mo.
Fulwider, Byron Simmons	BLA		Freeport
Funk, Frank Wilmer	Agr sp	011	Beverly
Funkhouser, Earl A	SS	91 1	Atlanta, Mo.
Furbeck, Stanley Brooks	ME	100	Oak Park
Furukawa, Sozabu Furst, Philip Carl	A	109	Saga-Ken, Japan
Furst, Philip Carl	$_{A}^{A}$	68	Bedford, Indiana
Gable, George Elmore	EE		Cedar Rapids, Ia.
Gaddis, Albert Macy Gaddis, Henry Elisha	$\overset{EL}{BLA}$	77 107	Modoc, Ind.
Gagdis, Henry Elisna		107	Modoc, Ind.
Gage, Byron Fremont	Agr sp		Seneca Texico
Gage, John Howard Gage, Marjorie Harriett Gage, Robert Percy	S Mara ab /	CC) 721	Champaign
Cage, Marjorie Harriett	Mus sp (691	
Gage, Robert Percy	Ag r LA	63	Elgin Chic a go
Gallagher, Anna Marie Gallaher, Harold Galpin, Stella Belle, A.B. (Kn	EE	03	Tiskilwa
Calain Challe Dalla A.D. (Vm	EE.		1 iskiiwa
Gaipin, Stella Belle, A.B. (An	Lb		Galesburg
Could Clare Curties	$\overset{Lo}{BLA}$	33	Malone, N. Y.
Comble Depoid Tempistics	Agr	70 1	Kewanee
Gamble, Clare Curtiss Gamble, Donald Tunnicliffe Game, Josephine Louise	CC	82°	Chatsworth
Candia Angel Charles	SS Ch	0.6	Manaté, P. R.
Gandia, Angel Charles Ganser, Alice	LA sp		Aurora
Gants, Elwyn Tracy	ME SP		Wenona
Gams, Elwyn Hacy	171 15		rr chonu

Gardiner, John Low Garrett, James Franklin Garrett, Louise Wallace	ME	41	Chicago
Garrett, James Franklin	ChE	87	Kinmundy
Garrett, Louise Wallace	LA	96	Champaign
Garritson, Hillard DeWitt	BLA		Marion, Ind.
Garten, William Raymond	CE	64	Odon, Ind.
Garwin, Henry Barnette	SS.		Pittsfield
Garritson, Hillard DeWitt Garten, William Raymond Garwin, Henry Barnette Gaskill, Della Alice Gately, Frederick Wortman Gates, Carleton Willard Gates, Harriet Elizabeth Gates Minnie Louise	HSS	68	Joliet
Gately, Frederick Wortman	EE EE	100	Chicago
Gates, Carleton Willard	HSS	109 37	Elgin
Cates, Harriet Elizabeth	Mus	11	Chicago
Causer Joseph Frederick	Agr	11	Urbana Champaign
Causer Marguerite Fleton	HSS	1031	Champaign Champaign
Gates, Minnie Louise Gauger, Joseph Frederick Gauger, Marguerite Elston Gauger, Paul Charles	AE	120	St. Paul, Minn.
Gauger, Raymond Wallace	A	120	Champaign
Gaut. Rosa-Lee. B.Mus., 1912	$\widetilde{L}A$	130	Knoxville, Tenn.
Gaut, Rosa-Lee, B.Mus., 1912 Gay, Strawn Aldrich	A (SS)	108	Ottawa
Gayle, Robert Edwin	Agr sp		Lincoln
Gayton, Loran Delancey	CE	58	Worcester, Mass.
Gee, Claude Earl	EE	92 1	Lawrence, Kans.
Gehant, Evelyn Ella	HSAgr		Dixon
Gehant, Evelyn Ella Gehant, Rosalie Florence	HSAgr		Dixon
Geherty, Celeste	LA		Winnetka
Gehrig, Arthur Gustave	CE	70	New Douglas
Geherty, Celeste Gehrig, Arthur Gustave Gehrig, Edward Franklin	ME	26	Grantfork
Geisendorier, Karl Edward	Agr	10	Pittsfield
Geitner, Herman Isaac	S	32	Chicago
Gemberling, Cameron Houtz	RCE	37 32	So. Bend, Ind.
Contla Congo Educad	HSAgr	102 1	Sparta Farmington
Gemmill, Josephine Alberta Gentle, George Edward George, Leslie Godfrey	$egin{aligned} Agr \ LA \end{aligned}$	28	Staunton
Gere, Helen Beatrice	HSLA	65	Urbana
Getman Roy Lyle	CE	93	Harvard
Getman. Roy Lyle Geyer, Grace Mildred Geyer, Howard Almon Gibbs, Paul Hedges	HSLA		Rosmell N. Mer.
Gever, Howard Almon	.4gr	$\frac{26\frac{1}{2}}{112}$	Rock Falls
Gibbs, Paul Hedges	ME	112	Westfield, Mass.
Gibson, Mable Helen	HSAgr	51	Woodstock
Gibson, Paul Y	Agr		Peoria
Gibson, Paul Y Giehler, Frederick John	AE	82	Ottawa
Gien, Lula Maud	SS MSE	$7\frac{1}{2}$	Champaign
Giessler, William Carson	MSE	110	Peoria
Giffin, Cora Amanda	HSLA		Lockport
Gilbert, Irving Brown	ÇE	5 0	Champaign
Gilbert, James Harman	LA	441	Mt. Vernon
Gildersleeve, Mary Elsie Gilkerson, Harry Charles	HSS	64 <u>1</u> 110	Hudson Marengo
Ciller John Por	Agr SS	36 1	
Gilkey, John Ray Gill, George Thallon	Agr	592	Evanston
Gillam Winona Mayble	Agr sp	37	Chicago
Gillam, Winona Mayble Gilmore, Leonard Mason	Agr	201	Moline
Gilnatrick Gladve	HSAgr		Plano
Girhard, George M Glassco. Roy Thomas Glenn, Edgar Wilson Glenn, Eleanor Mae, A.B., 1907 Glenz, Edward Anton	LA	35	Newton
Glassco, Roy Thomas	Agr sp	43	Charleston
Glenn, Edgar Wilson	CE SS		Holton, Kansas
Glenn, Eleanor Mae, A.B., 1907	SS		Champaign
Glenz, Edward Anton	ChE	104	Chicago
Glessing, Barbara Frances	LA		El Paso
Glick, Abe LeRoy	MSE	82	Chicago
Glover, Donald Mitchell			
C1	Md		Urbana
Glover, Leenard Wood, A.B., 1912	Md Mus	160	Urbana
Glover, Lecnard Wood, A.B., 1912 Glover, Rodney Champlin	Md Mus L	160	Urbana Ottawa
Glover, Donald Mitchell Glover, Lecnard Wood, A.B., 1912 Glover, Rodney Champlin Godehn, Reuel Ariel	Md Mus L AE	160	Urbana Ottawa Moline
Glover, Leenard Wood, A.B., 1912 Glover, Rodney Champlin Godehn, Reuel Ariel Godfrey, Eleanor Goghel, Irma Gretchen	Md Mus L AE LA (SS)		Urbana Ottawa Moline Philo
Glover, Leenard Wood, A.B., 1912 Glover, Rodney Champlin Godehn, Reuel Ariel Godfrey, Eleanor Goebel, Irma Gretchen Goelitz, William Henry	Md Mus L AE LA (SS) LA		Urbana Ottawa Moline Philo
Godfrey, Eleanor Goebel, Irma Gretchen Goelitz, William Henry	Md Mus L AE LA (SS)		Urbana Ottawa Moline Philo
Glover, Leenard Wood, A.B., 1912 Glover, Rodney Champlin Godehn, Reuel Ariel Godfrey, Eleanor Goebel, Irma Gretchen Goelitz, William Henry Goetz, Antoinette Helen, A.B. (Iowa State Univ.) 1906	Md Mus L AE LA (SS) LA	160 57 24½ 32	Urbana Ottawa Moline Philo

C. C. A. att Classic	377		Ci
Goff, Arthur Clark	Md		Staunton
Gohn, Lloyd Elias	LA (SS)	$119\frac{1}{2}$	Rochester, Ind.
Goldberg, Philip Hilton Golden, Wesley Barton Golden, Waldo Emerson	S	45	Chicago
Golden Wesley Barton	BLA	33	Champaign
C.11- W-11 Francis		33	
Golden, Waldo Emerson	Md	32	Champaign
Goldman, Ellis Ralph	CE	66	Rockford
Goldman, Rae	LA	841	
Gonda, August	MnE	072	Posses Propose
Gonda, August		1	Posen, Prussia
Gonsior, Albert Gooch, Gretchen Louise Goode, Eslanda Elbert	CE	79 1	Chicago
Gooch, Gretchen Louise	LA		Bellflower
Goode, Eslanda Elbert	HSLA		Greenville
Cooding Charles Wester	CC	205	
Gooding, Charles Wesley	22	30 €	Champaign
Gooding, Charles Wesley Goodman, Ezra	SS S	37	Zitomir, Russia
Goodmann, Eva Marie	HSLA		Champaign
Goodman, Eva Marie Goodmann, Leola Ione Goodwin, Viola Gordon, Raymond Hall Gorges, Franz Gormley Lames Beilly	HSLA	45	
Goodinami, Leola Tone	HSLA	65	Champaign
Goodwin, Viola	LA		Hot Springs, Ark.
Gordon, Raymond Hall	ME	36	Chicago
Corges Franz	CE	6	Chicago
Gorges, Franz			
Gormley, James Reilly	A	114	Chicago
Gould, Frank Elmer	\boldsymbol{A}		Urbana
Gould John Ir	Agr		Lake Forest
Canala Man			
Gowdy, Max	Agr		Blooming ton
Gould, Frank Elmer Gould, John, Jr. Gowdy, Max Grabbe, John Christian Grady, Edward Maurice	S Cer		Urbana
Grady, Edward Maurice	Cor	17	Bloomington
Craham Walter Thompson	CC.		
Granam, Watter Thompson	33		Kinmundy
Graham, Walter Thompson Grant, Clarence Todd Grant, Helen Winifrede Grant, Ruth Margaret	SS CE		Elgin
Grant, Helen Winifrede	LA	66	Urbana
Grant Ruth Margaret	HSLA	••	Urbana
Constitute Talgaret			
Grantham, Esta	SS	$15\frac{1}{2}$	Stockwell, Ind.
Grantham, George Manners	Agr	79	New Richmond, Ind.
Graves Perry Henry	BLA	29	Rockford
Graves Por Martin		27	
Graves, Perry Henry Graves, Roy Martin Gray. Cora Emeline, M.S. (Univ.	CE	36	Evanston
Gray. Cora Emeline, M.S. (Univ.			
Chicago) 1909	Mus		W. Palm Beach, Fla.
Grav John Ernest	MnE		Ottawa
Gray, John Ernest Gray, Ruth	TICA		
Gray, Kuth	HSAgr		Des Moines, Ia.
Grayhack, John Edward, Jr.	CE		Joliet
Green, Alta	LA	33	Urbana
Green Bortha Acres	Man (CC)	901	Incadala
Green, Bertha Agnes	Mus (SS)	80½	Ivesdale
Green, Alta Green, Bertha Agnes Green, Eulalie Green, Florence Green, Mer Ollic	S LA	27	Oakwood
Green, Florence	LA		Tonasket, Wash.
Green, Mrs. Ollie	22		Winchester
Creen Polet	SS CE	27	Chi
Green, Ralph	CE	36	Chicago
Green, Roy Ezra Greenburg, Roland Everett Greene Arthur Bitchia	Agr ME	391	Urbana
Greenburg, Roland Everett	ME		
Carrier Author Divite		50	New Richmond Ind
	Agr	59	New Richmond, Ind.
Greene, Arthur Kitchie	Agr	59 75	New Richmond, Ind. Lisle
Greene, Birdie Wilmah	Agr SS	59 75 90 1	New Richmond, Ind. Lisle Tallula
Greene, Birdie Wilmah Greene, Joseph Nathaniel	Agr SS	59 75 90 1	New Richmond, Ind. Lisle Tallula
Greene, Birdie Wilmah Greene, Joseph Nathaniel	Agr SS Agr	59 75	New Richmond, Ind. Lisle Tallula Chicago
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob	Agr SS Agr Agr	59 75 90 1	New Richmond, Ind. Lisle Tallula Chicago Chicago
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob	Agr SS Agr Agr ME	59 75 90 1 30	New Richmond, Ind. Lisle Tallula Chicago Chicago Chicago
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob	Agr SS Agr Agr ME ME	59 75 90 1 30	New Richmond, Ind. Lisle Tallula Chicago Chicago Chicago Pond Creek, Okla.
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob	Agr SS Agr Agr ME ME	59 75 90 1 30	New Richmond, Ind. Lisle Tallula Chicago Chicago Chicago Pond Creek, Okla.
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob	Agr SS Agr Agr ME ME	59 75 90½ 30 37½ 60	New Richmond, Ind. Lisle Talhıla Chicago Chicago Chicago Pond Creek, Okla. Hersman
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob	Agr SS Agr Agr ME ME SS AE	59 75 90½ 30 37½ 60 112	New Richmond, Ind. Lisle Tallula Chicago Chicago Pond Creek, Okla. Hersman
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob	Agr SS Agr Agr ME SS AE ME	59 75 901 30 371 60 112	New Richmond, Ind. Lisle Tallula Chicago Chicago Chicago Pond Creek, Okla. Hersman Peoria Kansas City, Mo.
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob	Agr SS Agr Agr ME ME SS AE ME BI A	59 75 90½ 30 37½ 60 112 1½	New Richmond, Ind. Lisle Tallula Chicago Chicago Chicago Pond Creek, Okla. Hersman Peoria Kansas City, Mo.
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob	Agr SS Agr Agr ME ME SS AE ME BI A	59 75 90½ 30 37½ 60 112 1½	New Richmond, Ind. Lisle Tallula Chicago Chicago Chicago Pond Creek, Okla. Hersman Peoria Kansas City, Mo. Chicago
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob	Agr SS Agr Agr ME ME SS AE ME BI A	59 75 90½ 30 37½ 60 112 1½	New Richmond, Ind. Lisle Tallula Chicago Chicago Pond Creek, Okla. Hersman Rensas City, Mo. Chicago Fulton, Ky.
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob	Agr SS Agr Agr ME ME ME BLA BLA BLA	59 75 90½ 30 37½ 60 112 1½ 96	New Richmond, Ind. Lisle Tallula Chicago Chicago Chicago Pond Creek, Okla. Hersman Peoria Kansas City, Mo. Chicago Fulton, Ky. Savanna
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob	Agr SS Agr Agr ME SS AE ME BLA EE (SS) BLA EE	59 7.5 90½ 30 37½ 60 112 1½ 96 67	New Richmond, Ind. Lisle Tallula Chicago Chicago Chicago Pond Creek, Okla. Hersman Peoria Kansas City, Mo. Chicago Fulton, Ky. Savanna Peoria
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob Greenhill, Harold Greenman, Philip Ray Greenwell, James Roland Gregg, Richard Seaton Gregory, Joseph VanClief Gregory, Lewis Throckmorton Gregory, Porter Tate Greison, Hans Peter Greves, George Lowthan Grewe, Gharles Henry	Agr SS Agr Agr ME SS AE ME BLA EE (SS) BLA EE	59 7.5 90½ 30 37½ 60 112 1½ 96 67	New Richmond, Ind. Lisle Tallula Chicago Chicago Chicago Pond Creek, Okla. Hersman Peoria Kansas City, Mo. Chicago Fulton, Ky. Savanna Peoria
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob Greenhill, Harold Greenman, Philip Ray Greenwell, James Roland Gregg, Richard Seaton Gregory, Joseph VanClief Gregory, Lewis Throckmorton Gregory, Porter Tate Greison, Hans Peter Greves, George Lowthan Grewe, Gharles Henry	Agr SS Agr Agr ME ME SS AE ME BLA BLA BLA Agr	59 75 90½ 30 37½ 60 112 1½ 96	New Richmond, Ind. Lisle Tallula Chicago Chicago Chicago Pond Creek, Okla. Hersman Peoria Kansas City, Mo. Chicago Fullon, Ky. Savanna Peoria Chicago
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob Greenhill, Harold Greenman, Philip Ray Greenwell, James Roland Gregg, Richard Seaton Gregory, Joseph VanClief Gregory, Lewis Throckmorton Gregory, Porter Tate Greison, Hans Peter Greves, George Lowthan Grewe, Charles Henry Gridley, William Whiting	Agr SS Agr Agr ME SS AE BLA BLA EE (SS) BLA EE Agr	59 75 9012 30 3712 60 112 112 96 67	New Richmond, Ind. Lisle Tallula Chicago Chicago Chicago Pond Creek, Okla. Hersman Peoria Kansas City, Mo. Chicago Fulton, Ky. Savanna Peoria Chicago Anboy
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob Greenhill, Harold Greenwall, James Roland Gregg, Richard Seaton Gregory, Joseph VanClief Gregory, Lewis Throckmorton Gregory, Porter Tate Greison, Hans Peter Greves, George Lowthan Grewe, Charles Henry Gridley, William Whiting Griesbaum, Erwin	Agr SS Agr Agr ME ME SS ME BLA BLA BLA EE EE Agr EE (SS)	59 75 9012 30 3712 60 112 112 96 67	New Richmond, Ind. Lisle Tallula Chicago Chicago Chicago Pond Creek, Okla. Hersman Peoria Kansas City, Mo. Chicago Fulton, Ky. Savanna Peoria Chicago Amboy New Baden
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob Greenhill, Harold Greenwall, James Roland Gregg, Richard Seaton Gregory, Joseph VanClief Gregory, Lewis Throckmorton Gregory, Porter Tate Greison, Hans Peter Greves, George Lowthan Grewe, Charles Henry Gridley, William Whiting Griesbaum, Erwin	Agr SS Agr Agr ME ME SS ME BLA BLA BLA EE EE Agr EE (SS)	59 75 9012 30 3712 60 112 112 96 67	New Richmond, Ind. Lisle Tallula Chicago Chicago Chicago Pond Creek, Okla. Hersman Peoria Kansas City, Mo. Chicago Fulton, Ky. Savanna Peoria Chicago Amboy New Baden Quincy
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob Greenhill, Harold Greenwall, James Roland Gregg, Richard Seaton Gregory, Joseph VanClief Gregory, Lewis Throckmorton Gregory, Porter Tate Greison, Hans Peter Greves, George Lowthan Grewe, Charles Henry Gridley, William Whiting Griesbaum, Erwin	Agr SS Agr Agr ME ME SS ME BLA BLA BLA EE EE Agr EE (SS)	59 75 9012 30 3712 60 112 112 96 67	New Richmond, Ind. Lisle Tallula Chicago Chicago Chicago Pond Creek, Okla. Hersman Peoria Kansas City, Mo. Chicago Fulton, Ky. Savanna Peoria Chicago Amboy New Baden Quincy
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob Greenhill, Harold Greenwall, James Roland Gregg, Richard Seaton Gregory, Joseph VanClief Gregory, Lewis Throckmorton Gregory, Porter Tate Greison, Hans Peter Greves, George Lowthan Grewe, Charles Henry Gridley, William Whiting Griesbaum, Erwin	Agr SS Agr ME ME ME BLA EE (SS) BLA EE Agr EEE Agr EEE SS	371 901 30 371 60 112 11 96 67 148 321 731	New Richmond, Ind. Lisle Tallula Chicago Chicago Pond Creek, Okla. Hersman Peoria Kansas City, Mo. Chicago Fullon, Ky. Savanna Peoria Chicago Anboy New Baden Quincy Hall, N. Y.
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob Greenhill, Harold Greenman, Philip Ray Greenwell, James Roland Gregg, Richard Seaton Gregory, Joseph VanClief Gregory, Lewis Throckmorton Gregory, Porter Tate Greison, Hans Peter Greves, George Lowthan Grewe, George Lowthan Grewe, Charles Henry Gridley, William Whiting Griesbaum, Erwin Griesbaum, Erwin Grieser, LeRoy Oliver Griffin, Fred Lyman Griffin, Harry Milton	Agr SS Agr Agr ME SS AE ME BLA BLA EE Agr EE Agr SS A	371 901 30 371 60 112 11 96 67 148 321 731	New Richmond, Ind. Lisle Tallula Chicago Chicago Pond Creek, Okla. Hersman Peoria Kansas City, Mo. Chicago Fullon, Ky. Savanna Peoria Chicago Anboy New Baden Quincy Hall, N. Y.
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob Greenhill, Harold Greenman, Philip Ray Greenwell, James Roland Gregg, Richard Seaton Gregory, Joseph VanClief Gregory, Lewis Throckmorton Gregory, Porter Tate Greison, Hans Peter Greves, George Lowthan Grewe, George Lowthan Grewe, Charles Henry Gridley, William Whiting Griesbaum, Erwin Griesbaum, Erwin Grieser, LeRoy Oliver Griffin, Fred Lyman Griffin, Harry Milton	Agr SS Agr ME ME SS SAE ME BLA EE (SS) BLA EE (SS) Agr EES Agr Agr Agr	371 901 30 371 60 112 11 96 67 148 321 731	New Richmond, Ind. Lisle Tallula Chicago Chicago Chicago Pond Creek, Okla. Hersman Peoria Kansas City, Mo. Chicago Fulton, Ky. Savanna Peoria Chicago Amboy New Baden Quincy Hall, N. Y. Connersville, Ind. Evanston
Greene, Birdie Wilmah Greene, Joseph Nathaniel Greengard, Louis Jacob Greenhill, Harold Greenwall, James Roland Gregg, Richard Seaton Gregory, Joseph VanClief Gregory, Lewis Throckmorton Gregory, Porter Tate Greison, Hans Peter Greves, George Lowthan Grewe, Charles Henry Gridley, William Whiting Griesbaum, Erwin	Agr SS Agr Agr ME ME SS ME BLA EE (SS) BLA Agr EE Agr SS Agr	371 901 30 371 60 112 11 96 67 148 321 731	New Richmond, Ind. Lisle Tallula Chicago Chicago Pond Creek, Okla. Hersman Peoria Kansas City, Mo. Chicago Fullon, Ky. Savanna Peoria Chicago Anboy New Baden Quincy Hall, N. Y.

AE	"	Cl b = ! = .
	66	Champaign
Agr		Chicago
Agr sp		Champaign
IA	66	Ashton
MnE (SS)	73	Champaign
T	25	Greenville
L 1	23	
		Menominee, Mich.
Agr		Medina, Pax., Mex.
HSAgr	39	Armington
ME	35	Chicago
		Ft. Wayne, Ind.
T		
L ,	11	Chicago
LA		Champaign
	31	Champaign
SS	2	Raymond
LA	105	Winchester
(22) 2		Potomac
2 (22)	465	Cidnes
77.00		
H22	130	Champaig n
LA		Quincy
HSLA		Quincy
Aar	387	Chicago
Agr	002	Shring Valley
ME	16	Spring Valley Marseilles
DIE.	10	Marseilles
EE		Marseilles
AE (SS)	37	Aurora
LA		Sheffield
I.		Wichita, Kans.
\overline{MF}		Chicago
RI A		
	71	Sycamore
HSLA	/0	Urbana
HSLA (SS)	40 2	Urbana
		Plymouth, Ind.
Ch	31	Mazon
Md		Aurora
I A	65	Indianapolis, Ind.
TA	05	Cairo
		Cairo
2197		Chicago
ME (33)	70½	Penfield
Agr	65	Cambridge
BLA		Champaign
	37	Keokuk, Ia.
7 %		Vinafahar Ohia
CLE		Kingfisher, Okla.
		Springfield
	114	Sterling
BLA		Evanston
BLA Mus sp (SS)	31	Evanston Urhana
Mus sp (SS)	31	Evanston Urhana
Mus sp (SS) LA	98 1 98 1	Evanston Urbana Urbana
Mus sp (SS) LA ChE	3½ 98⅓ 41	Evanston Urbana Urbana Chicago
Mus sp (SS) LA ChE AE	98 1 98 1	Evanston Urbana Urbana Chicago Chicago
Mus sp (SS) LA ChE AE RIA	98 1 98 1 41 42	Evanston Urbana Urbana Chicago Chicago Rockfort, Ind.
Mus sp (SS) LA ChE AE BLA LA (SS)	98 1 98 1 41 42	Evanston Urbana Urbana Chicago Chicago Rockfort, Ind. St. Louis, Mo.
Mus sp (SS) LA ChE AE BLA LA (SS) AE	983 41 42 96½	Evanston Urbana Urbana Chicago Chicago
Mus sp (SS) LA ChE AE BLA LA (SS) AE A	983 41 42 96½	Evanston Urbana Urbana Chicago Chicago Rockfort, Ind. St. Louis, Mo. Streator
Mus sp (SS) LA ChE AE BLA LA (SS) AE A	3½ 98⅓ 41 42 96½ 28	Evanston Urbana Urbana Chicago Chicago Rockfort, Ind. St. Louis, Mo. Streator Grinnell, Ia.
Mus sp (SS) LA ChE AE BLA LA (SS) AE A SS	3½ 98⅓ 41 42 96½ 28 98	Evanston Urbana Urbana Chicago Chicago Rockfort, Ind. St. Louis, Mo. Streator Taylorville
Mus sp (SS) LA ChE AE BLA LA (SS) AE A SS Agr	98 ± 41 42 96 ± 28 98	Evanston Urbana Urbana Chicago Rockfort, Ind. St. Louis, Mo. Streator Grinnell, Ia. Taylorville Hinsdale
Mus sp (SS) LA ChE AE BLA LA (SS) AE A SS Agr	983 41 42 962 28 98	Evanston Urbana Urbana Chicago Chicago Rockfort, Ind. St. Louis, Mo. Streator Grinnell, Ia. Taylorville Hinsdale St. Louis Mo.
Mus sp (SS) LA ChE AE BLA LA (SS) AE A SS Agr	983 41 42 962 28 98	Evanston Urbana Urbana Chicago Rockfort, Ind. St. Louis, Mo. Streator Grinnell, Ia. Taylorville Hinsdale St. Louis, Mo. Kewanee
Mus sp (SS) LA ChE AE BLA LA (SS) AE A SS Agr	983 41 42 962 28 98	Evanston Urbana Urbana Chicago Rockfort, Ind. St. Lowis, Mo. Streator Grinnell, Ia. Taylorville Hinsdale
Mus sp (SS, LA ChE AE BLA LA (SS) AE AS Agr Agr sp EE Agr	983 41 42 962 28 98	Evanston Urbana Urbana Chicago Rockfort, Ind. St. Louis, Mo. Streator Grinnell, Ia. Taylorville Hinsdale St. Louis, Mo. Kewanee
Mus sp (SS, LA ChE AE BLA LA (SS) AE AS Agr Agr sp EE Agr	983 41 42 962 28 98	Evanston Urbana Urbana Chicago Chicago Rockfort, Ind. St. Louis, Mo. Streator Grinnell, Ia. Taylorville Hinsdale St. Louis, Mo. Kewanee Peoria
Mus sp (SS) LA ChE AE BLA LA (SS) AE A SS Agr Agr Sp EE Agr SS	3½ 98⅓ 41 42 96½ 28 98 13 108 67	Evanston Urbana Urbana Chicago Rockfort, Ind. St. Louis, Mo. Streator Grinnell, Ia. Taylorville Hinsdale St. Louis, Mo. Kewanee Peoria Goodman, Mo.
Mus sp (SS) LA ChE AE AE ALA LA (SS) AE A SS Agr Agr sp EE Agr AGr SS Agr	3½ 98⅓ 41 42 96½ 28 98 13 108	Evanston Urbana Urbana Chicago Rockfort, Ind. St. Lowis, Mo. Streator Grinnell, Ia. Taylorville Hinsdale St. Louis, Mo. Kewanee Peoria Goodman, Mo. Niantic
Mus sp (SS) LA ChE AE BLA LA (SS) AE A SS Agr Agr Sp EE Agr SS	3½ 98⅓ 41 42 96½ 28 98 13 108 67	Evanston Urbana Urbana Chicago Rockfort, Ind. St. Louis, Mo. Streator Grinnell, Ia. Taylorville Hinsdale St. Louis, Mo. Kewanee Peoria Goodman, Mo.
	Agr sp LA Agr MnE (SS) L LA Agr HSAgr ME S BLA L LA AE SS LS LS SS LA HSLA AGr Agr Agr Agr AGR EE AE (SS) LA HSLA HSLA HSLA HSLA HSLA HSLA HSLA H	Agr sp LA Agr sp LA Agr HSAgr 39 ME 35 S 9½ BLA 34 L 11 LA AE 31 SS 2 LA 105 SS (SS) 100 SS 468 HSS 130 LA HSLA HSLA Agr 38½ Agr ME 16 EE AE (SS) 37 LA L ME BLA HSLA (SS) 40½ ME Ch ME SS 31 Md Agr 38½ LA LA LA LA LA LA LA LA AGR 31 LA LA AGR 32 LA LA LA AGR 35 LA LA LA AGR 365 LA AGR 37 LA LA LA LA AGR 365 LA LA AGR 37 LA LB LC LB LB LC LB LB LC LB LB LC LB

Halliday, Ruth	LA	57 1	Clio, Mich.
Halliwell, Pauline	LA	31	Chicago
Trainweil, Taumie	7.4	5	
Halperin, Victor Hugo	LA	3	Chicago
Halterman, Henry James Hamblin, Eugene Earl	ME		Anna
Hamblin, Eugene Earl	S		Decatur
Hamill, Eugene Carl	AE		Bloomington
Hamilton Dubon Tomos	22	5	
Hamilton, Rubey James Hammer, Glenn Orville	SS EE		Kewanee
Hammer, Glenn Orville	EE	36	Morrison
Hammitt, Andrew Baker Hampton, Ernest Byron	AE	37	Des Moines, Ia.
Hampton Ernest Ryron	2		Benton
Transport, Errest Dyron	S L	2.0	
Hana, Leo Gregory	L .	20	Champaign
Handke, Paul Albert	CerE	$107\frac{1}{2}$	Evanston
Handschin, Walter Frederick	Agr	$20\frac{1}{2}$	Urbana
Unnes Ernect Floyd	LA	60	Mt. Morris
Hanes, Ernest Floyd	C	65	
Hanes, Helen Leigh Hanes, Murray Samuel	S_		Springfield
Hanes, Murray Samuel	AE	116	Springfield
Hanford, Charles Harry	EE		Geneseo
Hankins, Orville Gerber	Agr	901	Champaign
Trankins, Orvine derber		702	
Hanley, Cope Judson	LA		Rensselaer, Ind.
Hannah, Harry Ingalls	L(SS)	98 1	Urbana
Hansen, Mabel Laurine	HSAgr	64	Jackson, Minn.
Hansen Marritt Pasmus	CE	111	Chicago
Hannah, Harry Ingalls Hansen, Mabel Laurine Hansen, Merritt Rasmus	AE.	111	
	AE	25	Chicago
Hansen, Roy	Agr	79	Rock Island
Hansen Stanley	ME	ó	Chicago
Transcu, Wilhum Montin		•	Chicago
Hansen, Roy Hansen, Stanley Hansen, Wilbur Martin Hanson, Leslie Carl Hanson, Roy Walfred	Agr sp		
Hanson, Leslie Carl	LA		Morris
Hanson, Roy Walfred	AE	71	Oakland, Nebr.
Harbour, Albert Stanley Hardin, William Atwater	ME	75	Winchester, Ind.
Trandia William Atmotor	Agr sp		Keithsburg
Hardin, William Atwater	Agr sp	105	
Harding, Albert Austin	SS	105	Champaign
Harding, Albert Austin Hardinger, Paul Milton	Md		Gays
Hare, Faye Charles	LA (SS)	101	Gilman
Harris Isaah	ČE (SS)	75	Peoria
Harman, Harris Jacob Harner, George Madison			
Harner, George Madison	Agr(SS)	1027	Urbana
Harner, Arthur Theodore Claus	BLA		Dolton
Harner, Arthur Theodore Claus Harner, Horace Hugo Harper, Edward Clarke Harper, Julia Alberta	A	118	Fulton, Mo.
Harner Edward Clarks	Ä	86	Enderlin, N. D.
Harper, Edward Clarke			
Harper, Julia Alberta	LA	111	Urbana
Harpole, Tillman Hardy Harris, Clyde Dunbar Harris, Elodia Phern	LA		St. Louis, Mo.
Harris Clyde Dunbar	SS	16 1	Dongola
Harris Fladia Phern	HSS		Marion
Hairis, Elouia Theri	7 1		
Harris, Hannah Hahn Harris, Hannah Jewell	LA LA	40	Champaign
Harris, Hannah Jewell	LA	48	Elgin
Harris, Herbert Henry	Agr	48	Cairo
Harris, Herbert Henry Harris, Leo Gabriel Harris, Lois Myrtle Harris, Loretto	BLA		Wilton, Jct., Ia.
TT T Africal		44	Sheldon
Harris, Lois Myrtie	S_{α}		
Harris, Loretto	SS	4	E. St. Louis
Harris Margaret Ray	LA	66	Champaign
Harris, Margaret Ray Harris, Roscoe Conkling	ME	110	Champaign
Harris, Roscoe Conking	00		
Harris, William Harris, William Earle	SS	$99\frac{1}{2}$	Altamont
Harris, William Earle	Agr sp		Galva
Harrison Ruth	LA		Morris
Harrison, Ruth Harrover, Mary Agatha	SS	131	Burlington, Ia.
Harrover, Mary Agadia	4		
Harsch, Eugene Milton	Agr	27	Peoria
Harsh, Harry Jackson	BLA		Sullivan
Harshbarger, Clara Belle	LA	1027	Arcola
Harshbarger, Clara Belle Harshbarger, James Francis Hart, Archie Harrison	SS	130	Arcola
Track And Transfer	1	150	Grand Chain
Hart, Archie Harrison	Agr		
Hart, Hazel Charlotte, A.B., 1912 Hart, Herbert Earl	SS		Champaign
Hart, Herbert Earl	BLA	31	Westfield, Mass.
Hart, Myron Bishop	Agr sp	31	Kenilworth
Tlast David Mathem		74	Clinton
Hart, Paul Mathew Hart, William Ward	EE	14	
Hart, William Ward	LA		Benton
Hartbank, Frederick William	BLA	24	Tolono
Harter, Earl Clark	LA	211	Wenona
Harting, Mildred Ellen	LA	41	Alexandria, Ind.

TT C TT			4.4.1
Hartman, George Howard	EE		Atkinson
Hartman, Laura Ellen	LA	23	Wellington
Hartmann, Carl Alfred	BLA	27	Alton
Hartsook Nellie Mae	HSLA	101	Clinton
Hartmann, Carl Alfred Hartsock, Nellie Mae Hartzelle, Ruth Rebecca	ii 3 LA	101	Clinton Carthage
Hartzelle, Kuth Kebecca	LA	60	Carthage
Harvey, Beulah	SS	73	Mt. Carmel
Harvey, Beulah Harvey, Ralph Frame	Agr SS L S	• 2	Indianapolis, Ind.
Harwood, Frank D Harwood, Herrick Hopkins Hasgall, Myles Sigmund Hasgall, Rexford Theodore Haskell, Frank William	2197	20	Thuishayons, Ina.
Harwood, Frank D	22	20	Flora
Harwood, Herrick Hopkins	L	78	Carrollton
Hasgall Myles Sigmund	9		St. Louis, Mo.
Hassall Danfand Thandon	3/1	-	
Hasgail, Rextord Theodore	ME	5	St. Louis, Mo.
Haskell, Frank William	EE		Sterling
Haskell James Porter	Cer		Starling
Haskell, James Porter Hasker, Edwin Laurie Haskett, Clarence Raymond Haslund, Roy Harrison		~ ^	Sterling Kankakee
Hasker, Edwin Laurie		70	Kankakee
Haskett, Clarence Raymond	Ch		Oklahoma City, Okla.
Hasland Roy Harrison	A		Minneapolis, Minn.
Uassia Carl		, ,	minneapons, bitte.
Hassig, Carl	EE		Atwood
Hatch, Alice Ruth Hatch, Walter Samuel	HSS	89	Richmond
Hatch, Walter Samuel	Agr EE		Avon
Haten, Walter Samuel	7197		
Hatowski, Elijah Robert	EE		Oak Park
Hattenhauer, Robert Clinton	ME		Peru
Hatton, Marcia Burrie	HSAgr	20	Chambaian
IT-ub C1	1137191	20	Champaign Springfield, Mo.
Hauber, Carl Haugh, Benjamin Franklin	A	29	Springheld, Mo.
Haugh, Benjamin Franklin	Cer SS		Anderson, Ind.
Havenhill, Lillian	22		Jacksonville
II. Tarian	77.C.4		
Haver, Emily Louise	HSAgr		Pueblo, Colo.
Hawkins, Emin Witherspoon	Agr		Fairmount
Hawkins, James Sumner Hawkins, Marjorie Deane Hawkins, Ralph Roscoe	Agr		Marion Ind
Hawkins, James Bulliner	219	~ 1	Climan, Ind.
Hawkins, Marjorie Deane	22	12	Chicago
Hawkins, Ralph Roscoe	ME	109	Palestine
Hawley, Altred DeWitt	CE	567	Pittsford N V
Han Clair Edmands	1== (CC)	1202	044
may, Clair Edwards	Agr (33)	120	Ottawa
Hay, Eleanor Kidgely	BLA sp		Urbana
Hay, Clair Edwards Hay, Eleanor Ridgely Hay, Henry Collins	T. (SS)	50	Fairmount Marion, Ind. Chicago Palestine Pittsford, N. Y. Ottawa Urbana Urbana Elwood Urbana Champaign Waco, Texas Urbana Flora La Sule
Handan Edmund Matthews	1500		El J
Hayden, Edmund Matthew	Ayr sp		Elwood
Hayes, Edward Bean Hayes, William Bertram	2.2.	4	Urbana
Haves, William Bertram	BLA	24	Chambaian
Hawharet Paul	400	15	Wass Targe
Hayhurst, Paul	291	13	Waco, Texas
Hays, Lillian Mae	Mus sp	1 2-3	Urbana
Hayward, Jessie L	SS		Flora
Hazen, Franklin Millen	ChE		LaSalle
Tracti, Frankini Dinich	Chi		Lasalle Paris Chicago Aurora Rochelle Grayville Amboy Chicago Oberlin, Ohio Wellston, Mo. New Carlisle, Ohio Rockefeller Plymouth Plymouth
Headley, Francis Leo Healy, Emmett Joseph Healy, Fred Albert	Agr		Paris
Healy, Emmett Joseph	CE	120	Chicago
Healy Fred Albert	Anr	36	Aurora
Haster Wallington Contaton	7	36	D1 -11 .
Healy, Wellington Carleton	L	33	Rochelle
Hearn, Alma	Mus sp	4	Gravville
Heath Edith Mary	I A	3.3	Ambay
Heath, Nathaniel Pinckard Heath, Trevor Morse Hecht, August George	EE (CC)	1001	Chicago
Train, Nathanier I mekard	EE (33)	1034	Chicago
Heath, Trevor Morse	Agr	25	Oberlin, Ohio
Hecht, August George	Agr sb (SS	S) 534	Wellston, Ma.
Heck, Arthur Floyd	100 (CC)	1101	Man Carlinla Ohio
True de la companya d	297 (33)	1102	New Carnsie, Onio
Hecketsweiler, Roy Thomas	LA	30	Rockefeller
Hedgcock, John Franklin Hedgcock, John Harrison Hedrick, George Samuel Heflin, James Edgar	Agr	44	Plymouth
Hedgeock John Harrison	Agr		Plymouth
Hadriel Comma Commal	1197		77.7
nedrick, George Samuel	Ag r SS	_	Urbana Versailles Farmershura Ind
Heflin, James Edgar	55	9	Versailles
	Mus sp		Farmershura Ind.
Hagnauer Pohert Lucius	100	112	Abblatan City Ma
Hegnauer, Robert Lucius Heidkamp, Emil Nicholas Heimbrodt, Carl Edward	Agr CE	116	Farmersburg, Ind. Appleton City, Mo. Chicago Wilmette
Heidkamp, Emil Nicholas	CE	105	Chicago
Heimbrodt, Carl Edward		67	Wilmette
Hein, Mary Rachel	Anr ch /S	C) 121	Chambaian
	CIP SY (St	162	Jampuign
Heinzelmann, Alfred Martin	CHE	54	Aurora
Heiple, Donald Graff			III a a him at a a
	BLA		vv asningion
Helander, Linn	A Agr sp (SS ChE BLA Md	70	Chicago
Helander, Linn	BLA Md ConF	70 76	Chicago
Helander, Linn Helfrich, Otis Loyd	BLA Md CerE	70 76	Chicago Carthage
Helander, Linn Helfrich, Otis Loyd Helfrick, Ray Eichorn	BLA Md CerE A	70 76 36	Chicago Carthage Elkhart, Ind.
Heiple, Donald Graff Helander, Linn Helfrich, Otis Loyd Helfrick, Ray Eichorn Helgeland, Lillie Isabel	BLA Md CerE A LA	70 76 36 4	Washington Chicago Carthage Elkhart, Ind. Elliott

476 Universi	ty of Illino	ois	
4/0	LA	M	etropolis
Helm, Herbert Clarence	Agr	58 Ja	icksonville ew York City
Helm, Herbert Charles Hemphill, Chester Abram Hemstreet, Bonfield Vance	ME EE	en C	hicado
Henderson, Alexander	EE	33 S	terling, Colo. lillers Ferry, Ala.
Henderson, Alexander Henderson, Frank Spoor	1 ~~	$70\frac{1}{2}$ M	(illers Ferry, 1110
Henderson, Fred Henion, Lora Atkins, A.B., 1907, A.M., 1911 Henline, Henry Harrison Henry, Mary Anne Henry, Percy Chandler Henson, Ray David Henburn, Thomas McDonald	22	U	Irbana
A.M., 1911	SS EE		Colfax Paloma
Henline, Henry Harrison	LA	00 I)ecatur
Henry, Percy Chandler	EE (SS) LA	J	ohnston City
Henson, Ray David	ĈÊ		Genoa Chicago
Hepburn, Thomas McDonald Herbert, James John Michael	L sp Agr (SS)	109	Jrbana -
Henson, Ray David Hepburn, Thomas McDonald Herbert, James John Michael Herbolsheimer, Albert John Herbon Carrie Belle	S	65	Winnetka
Herbolsheimer, Albert John Herdman, Carrie Belle Herdman, Margaret May, A.B., 1910	Lb		Winnetka Pekin
Herdman, Margarette	BLA	1143	Sterling
Herget, Effect Edgar Paul Hermann, Edgar Paul Hermann, Ralph Leroy	S (SS) EE	37	Woodbine Milford
Hermann, Ralph Leloy Hermansen, Frank Alfred	BLA	47	Farmer City
Hermansen, Frank Herrick, George Wirt Herrick, Wayne Dayre	L Agr	64 1	Farmer City
Herrick, Wayne Dayre	A	75 70 €	Hersman Momence
	Md	21	Glasford
Hess, Gailord Ray Hess, Samuel Earl Ress, Samuel Earl	ChE SS	121	Aurora
Hess, Samuel Earline Elizabeth	Agr sp	27	Beason
Hesselbaum, Caronne Enzageta Hetzler, Vaughn Glenn Heuse, Edward Otto, B.S. (Hanov.	er SS		Champaign
Heuse, Edward Otto, 1907 Coll.) 1900, M.S., 1907 Hewins, Melvin Edwin	MnE	12	Loda
Hewins, Melvin Edwin Hey, Charles Victor Hey, Charles Victor	Agr sp	73 1	Polo Chicago
Hey, Charles Victori Heywood, Harold William Hickman, Burr James Hicks, Roscoe Herman	CE (SS) LA	29	Urbana
Hickman, Burr James	BLA	102	Colfax Waterloo, Wis.
Hicks, Roscoe Herman Hiebel, Leonard B	Agr LA (SS)		Urbana
Hiebel, Leonard B Higgins, Irma May Higgins, Max Brown Hilbert, John William Hilbert, John Arthur John	AE (SS)	77	Joliet
Higgins, Max Brown	CE		Chic ag o Rockford
Hildebrand, Arthur John	L LA		Hunt
Hildebrand, Artini John Hiles, Marie Alice Hill, Charles Francis Hill, Charles Nelson Hill, Chauncey Steavens Hill, Fred James Hill Fanny Wilder, A.B., 1910	s.	69	Toledo Champaign
Hill, Charles Francis	BLA	106 1 66	Champaign
Hill, Chauncey Steavens	Agr Cer	30	Harvard
Hill, Fred James Hill, Fanny Wilder, A.B., 1910	Lb	10	Champaign Coyoacan, Mex.
Hill, Fanny Whitel, 1112,	Agr LA		Oakwood
Hill, Jesse Levin	ĈĒ	73	Chicago
Hill, John William	Mus sp	39	Champaign Chicago
Hill. Margaret Dorothy	HSAgr ME	7	Woodstock
Hill, Fanny Wilder, A.B., 1976 Hill, John Cantwell Hill, John William Hill, Lucy Belle Hill, Margaret Dorothy Hill, Roger Edward Hill, Stanley Hill, Wilma Marie Hilling, David Curtis	S	95	Mattoon Dayton, Ind.
Hill, Stanley	LA SS	76 7 <u>1</u>	
Hilling, David Curtis	CE	64	Chicago
Hillman, Arthur Burgess	MSE	36	Joliet Boody
Himstedt Ralph Edner	LA Agr	36	Dundee
Hinman, Robert Blue	BLA	99 3	Davenport, 10.
Hinrichsen, Fred Albert Hinrichsen, Harvey Rebecca	SS HSLA		Ridgeform
Hinshaw, Hazel Flizabeth	L		Harrisburg
Hinrichsen, Fred Albert Hinshaw, Harvey Rebecca Hinshaw, Hazel Flizabeth Hinshaw, Joseph Howard Hirschfeld, Leo Sanl	\boldsymbol{A}	30 86	
Hirschled, Jackson Edward Hirt, Edward George, Jr.	$\stackrel{A}{A}$	3	St. Cloud, Minn.
Hirt, Edward George, Jr. Hirth, Laura Edna	HSAg	r 11	Quincy
HITTH, Laura Laura			

Hirtzel, Clara Lillie	SS	62 1	Effingham
Hitchcock, Earl Wilkie Hitt, Agnes Virginia Hitt, Katherine	Agr	34	Hallowell, Kans.
Hitt, Agnes Virginia	HSLA		Herrick
Hitt. Katherine	LA	41	Chicago
Hitt, Mabel	HSLA		Urbana
Trans And Manage			
Hjort, Axel Magnus Ho, Chung Ming Hocking, Clarence Daniel Hodgins, William Brooks	ÇhE	58	Chicago
Ho, Chung Ming	LA	63	Canton, China
Hocking, Clarence Daniel	Ag sp		Bone Gap
Hodgins, William Brooks	ME	771	Little Rock, Ark.
Hoehn, Friemont John August	Cer SS SS		Carlinville
Hoehn, Friemont John August Hofacker, Olga Vera, A.B., 1911	22		Peoria
Traff lata Tabas	33	201	
Hoff, John LeRoy	22	30₺	Ottawa
Hoffert, Anna Catheryn	LA	33	Pekin
Hoffman, Frank Joseph	A	103%	Sharpsville, Ind.
Hoffman, Frank Joseph Hoffman, John Neal Hoffman, Kay Henry Hoffman, Lynden Evan	SS	59	Pesotum
Hoffman Van Honey	100 06	3,	
Tollman, Kay Helly	Agr sp		Copenhagen, Denmark
Honman, Lynden Evan	S		Harvey
Hoffman, Roy Albert Hoffman, Reyburn Paul Hoffman, Robert William	EE		Aurora
Hoffman, Revburn Paul	A	67	St. Louis, Mo.
Hoffman Robert William		103½	Chicago
Hafatattan Dahant			
Hofstetter, Robert	SS_	5	Champaign
Hogan, Harold Eugene	ChE		Lanark
Hohman, Elmo Paul	LA		Nashville
Hohmann, Howard Christopher		116	Blue Island
Hoit, Maurice Elon	Agr	31	Geneseo
Halia Jagiah Camaball		1101	
Hoke, Josiah Campbell	Agr (SS)	1105	Sullivan
Holbrook, Howard Crounse	Agr	26	Oak Park
Holch, Arthur Everett	SS	137	Gilman
Holinger, Arnold Carl	A		Chicago
	LA	0.2	
Hollandsworth, Blanche Louise		82	Canton
Hollard, Henry Walter	Agr sp	13	Highland
Hollister, Noble Parker	Agr	55	Champaign
Hollister, Noble Parker Holloway, Doris Jean	HSLA ME		Detroit, Mich.
Holmburger, Max, Jr.	ME	37	Chicago
Holmes, Charles Vernon	ME	٠.	
	1-11		Champaign
Holt, Arthur Parker	Agr	62	Shawneetown
Holt, Emery Ford	EE	100	Shawneetown
Holton, Caryl Ames Holton, Frankie Leo	EE CE	107	Sidell
Holton, Frankie Leo	LA	713	Sidell
Homann, Ferdinand	Agr	93	Mattoon
TI William Anthon			Mulloon
Honer, William Arthur	A	36	Jackson, Mich.
Honold, James Ray Hood, Clifford Firoued Hoog, Ida	Agr		Lima, Ohio
Hood, Clifford Firoued	EE	36	Cameron
Hoog, Ida	SS		Litchfield
Hoover, Isabel	LA	58	Bushnell
Harling Filiatt Dudd	ME		
Hopkins, Elliott Budd Hopkins, Gold Samuel	MIE .	82	Racine, Wis.
Hopkins, Gold Samuel	BLA (SS)	26	Champaign
Hopps, Robert Smith	CE	391	Spokane, Wash.
Hornal, William	Agr sp (SS)	20	Urbana
Horning Roy Arthur	Cor	70	Paris
Wornhohl Singfried Invine William	1E	, ,	
Hornkohl, Siegfried Irving William Hornung, Martin Robert Horrell, Charles Rush Horton, Claude Edward	AL		St. Joseph, Mo.
Hornung, Martin Robert	cer	105	Chicago
Horrell, Charles Rush	EE	108	Macomb
Horton, Claude Edward	Agr		Dixon
Horwich Louis Inline	A	27	
Hacking Mary Mildred	LA (SS)	87 93	Chicago
TT 1 STEEL T			Norris City
Horwich, Louis Julius Hoskins, Mary Mildred Hoskins, William, Jr.	BLA	64	LaGrange
Hoskinson, Bruce Quinn	55	30 l	West York
Hoskinson, Ottes, A.B. (Christian		-	
Call) 1900	22.		Meron, Ind.
Hostetler Toseph Columbus	SS LA	25	
Trestation Oliman Clinton	CC	35	Decatur
Hosteller, Oliver Clinton	SS	8	Charleston
Hough, Charles Francis	Agr	34	Champaign
Hough, Helen Elizabeth	LA	96	Champaign
Hostetler, Joseph Columbus Hostetler, Oliver Clinton Hough, Charles Francis Hough, Helen Elizabeth Hough, Waldron Henry Hoult Canada Frances	EE	3	Oak Park
Hoult, Geneva Frances	EE SS	3 79	Chrisman
aroun, comera i tamees	55	.,	On isman

Houser, Irma L	LA		Farmer City
Houseman John Smith	MnE	75	Canton
TI Managara		,,	
Houser, Irma L Housman, John Smith Houston, Margaret Howat, Walter Leonard Howe, Charles Ralph Howe, Edward Gardinar, Jr. Howe, Harold James	HSAgr		Chicago
Howat, Walter Leonard	Cer	67	Canton
Howe, Charles Ralph	Agr		Champaign
Hama Edward Cardinar Tr		65	Chicago
riowe, Edward Gardinar, Jr.	Agr	05	
Howe, Harold James	$\stackrel{L}{LA}$	7	Galesburg
Howe, Helen	LA	16	Indianapolis, Ind.
Howe, Helen Howe, William Thomas	Agr	201	Tuscola
Towe, William Thomas			
Howell, Grace Laura Howes, Herbert Edward Howk, Charles Dean	SS	6	Lewistown
Howes, Herbert Edward	Agr	74	Chicago
Howk Charles Dean	LA	25	Momence
TI Tarres Claration			
Howser, James Chandler Hribal, Edward A Hsu, Tsung Han Hubbard, Laura Mary, A.B. (West-	Agr	74	St. Anne
Hribal, Edward A	AE	$110\frac{1}{2}$	Chicago
Hen Tenng Han	S (SS)	68 1	Shantung, China
Theband Laura Many A.B. (West	5 (50)	002	Shaning, Omna
Hubbard, Laura Mary, A.D. (West-			
ern Coll. 1 1896	Lb	40	Lockwood, O.
Hubbard, Laurence Reid Hubbard, Lucy Eleanor Hubbard, Mrs. Margaret Hubbard, Martha Koehn, A.B., 1904	CE	15	Rock Falls
Habbard Lucy Florage	HSS (SS)	95	Urbana
riubbard, Lucy Eleanor	1122 (33)		
Hubbard, Mrs. Margaret	SS	$3\frac{1}{2}$	Carrollton
Hubbard, Martha Koehn, A.B., 1904	Mus		Urbana
Hubbard, William Francis	ME	24	Rockford
Trubbaid, William Flancis		47	
Huddleston, Russell McDonald	Agr		Farmer City
Huddleston, Samuel David, A.B.			
(Shurtleff Call) 1910	SS		Gillespie
(Shurtleff Coll.) 1910 Hudelson, Clyde Whittaker	1 (CC)	0.0	
Hudelson, Clyde Whittaker	Agr (SS)	92	Gooding, Idaho
Hudson, Edward George	Agr		Newton, Kans.
Hudson, Mary Gladys	LA	31	Sullivan
Tr C M T 1'-		51	77.1
Huff, Marguerite Lydia	Mus sp		Urbana
Hufford, Charles Thurman	Agr sp	28	Emma
Hughes Cecil A	Agr	69	Gays
Hughes, Coll II			Cassia Tud
ringnes, John Harvey	Agr	$102\frac{1}{2}$	Gessie, Ind.
Hughes, Cecil A Hughes, John Harvey Hughes, Wimam Virgil	Agr sp		Palestine
Huisken, Arthur Herman	ChE	36	Chicago
	Agr	$100\frac{1}{2}$	
Hull, Daniel Ray		1002	Orange, Calif.
Hull, Harter Barnes	BLA		Cincinnati, O.
Hull, Luenna	LA		Huron, O.
Hulteen, Henry Waldorf	AE		Evanston
Truncen, firmy wandon		1.4	
Humphrey, Kenneth Blaine	EE	14	Waterloo, Wis.
Humpidge, Herbert Leslie Hungate, Harold Grandison	Agr		Chicago
Hungate Harold Grandison	EE	59	LaHarpe
II	ĈË	28	Loda
Hungerford, Charles Everett	CE		
Hunt, Ada Eleanor	SS	133	Champaign
Hunt Clara	Mus sp		Ridott
Hunt Florence Tennie	HSS	25	Ridott
Hunt, Florence Jennie Hunter, James Albert Hunter, James Alexander			
Hunter, James Albert	LA	$100\frac{1}{2}$	Peoria
Hunter, James Alexander Hunter, Richard Dale	Agr		Frankfo rt
Hunter Richard Dale	Agr		Tiskilwa
Hanter, Record Field	S	117	Chillicothe
Hunter, Russell Field		111	
Huntington, Homer Irving	Agr		Chicago
Huntington, Homer Irving Huntington. Margaret Alice	LA	30	Aberdeen, S. D.
Huntoon Alborto	SS	71	Canandaigua, N. Y.
Huntoon, Alberta	S S		
Huntoon, Geneva		$125\frac{1}{2}$	Champaign
Husband, Robert Maurice	ME	35	Litchfield
Husted Guy Harold	Agr	24	Roodhouse
Husted, Guy Harold Husted, Lee A	Agr	30	
Husten, Lee A		30	Roodhouse
Husted, Margaret Elizabeth	Agr sp		Zion City
Huston, Joseph Alfred	L(SS)	83	Gibson City
Hutabine Marioria		29	Urbana
rutemins, marjorie	Mare		
	Mus		
Huxmann, Richard Frederick	Mus CE (SS)	$125\frac{1}{2}$	Urbana
Huston, Joseph Alfred Hutchins, Marjorie Huxmann, Richard Frederick Hyde, Henry Fillmore	Mus		
Hyde, Henry Fillmore	Mus CE (SS) Agr	$125\frac{1}{2}$	Urbana Shabbona Grove
Hyde, Henry Fillmore Iddings, Vera Glee	Mus CE (SS) Agr LA	$\frac{125\frac{1}{2}}{57\frac{1}{2}}$	Urbana Shabbona Grove Red Oak, Iowa
Hyde, Henry Fillmore Iddings, Vera Glee Iida, Tadishi	Mus CE (SS) Agr LA SS	$125\frac{1}{2}$	Urbana Shabbona Grove Red Oak, Iowa Tokyo, Japan
Hyde, Henry Fillmore Iddings, Vera Glee Iida, Tadishi Imes, Oliver Stapp	Mus CE (SS) Agr LA SS EE	$125\frac{1}{2}$ $57\frac{1}{2}$ 141	Urbana Shabbona Grove Rcd Oak, Iowa Tokyo, Japan Macomb
Hyde, Henry Fillmore Iddings, Vera Glee Iida, Tadishi Imes, Oliver Stapp	Mus CE (SS) Agr LA SS EE	$\frac{125\frac{1}{2}}{57\frac{1}{2}}$	Urbana Shabbona Grove Rcd Oak, Iowa Tokyo, Japan Macomb
Hyde, Henry Fillmore Iddings, Vera Glee Iida, Tadishi	Mus CE (SS) Agr LA SS	$125\frac{1}{2}$ $57\frac{1}{2}$ 141	Urbana Shabbona Grove Red Oak, Iowa Tokyo, Japan

		_	
Ingham, Alice	SS	91	Cicero
Ingold, Vivian Johnson	AE	117	Appleton, Wis.
Inman, Dean Maxwell	SS		Neoga
Ingham, Alice Ingold, Vivian Johnson Inman, Dean Maxwell Irvin, Stanley Pueffer Irwin, Scott Broadwell Irans, Arron Pale	BLA		Griffith, Ind.
Truin Scott Broadwell	Agr		Pleasant Plains
Turne Asses Delah	2197	741	
	ŞŠ	76½	Champaign
Jackson, Ernest Theodore Jackson, Ernest Theodore Jackson, Grace Janet Jackson, Harold Rufus Jackson, Mabel	ME		Elgin
Jackson, Ernest Theodore	SS	7 1	Odin _
Jackson, Grace Janet	LA CE		Pueblo, Colo.
Tackson, Harold Rufus	CE		Danville
Tackson, Mahel	LA	41 2-3	Danville
Jackson, Ruth Whittier	SS	131	Eureka
Jacob, Eda Auguste	HSLA	67 ½	Constantinople,
Jacob, Lua Muguste	113211	0/2	Turkey
T 1	77.4	64	
Jacobsen, Walter Herman	BLA		Urbana D
Jalandoni, Jose Ledesma	SS	$133\frac{1}{2}$	Jaro, Iloilo, P. I.
James, Edward Allen	ĒΕ	37	Amboy
James, Edward Allen James, Linton Willis	Agr	33	Canton
James, Phebe Elizabeth	LA	56	Mansfield
James, Russell Louis	Agr	$19\frac{1}{2}$	Crystal Lake
Janson, John Moller	Ch	47	E. Orange, N. J.
Jarnagin, Robert	LA		Shelbyville
Tamia Damling	EE	13	Hinsdale
Jarvis, Rowling	ΕE		
Jarvis, William Bancroft	LA	30	Chicago
Jarvis, William Bancroft Jasper, Walter Jefferis, Sidney Ambrose	Agr	34	Chicago
Jefferis, Sidney Ambrose	CE		E. St. Louis
Jefferson, John Benjamin	ME	44	Chicago
Jenkins, Albert Leo	A		Danville
Jenks Royal Edward	SS	5	Dana, Ind.
Jenks, Royal Edward Jenne, Charles Henry	Agr sp	•	Sullivan
Jennies Comes Come			Carlinville
Jennings, Carson Gary Jennings, Walter Wilson	CE	40	
Jennings, Walter Wilson	LA	60	St. Elmo
Jensen, Milton Owen	BLA	30	Chicago
Jeremiah. Otis	Agr sp	20	Willisville
Jervis, Florence May	Mus	24	Champaign
Jessen, Hubert	Agr sp	25	Alto Pass
Jewett, Fred Allen	CerE		Burlington, Kan.
Jez, Leo Charles	Anr	56	Chicago
Johanning Nora Bertha	HSAgr (SS	1) 36	Champaign
Johanning, Nora Bertha Johanson, Ralph Thure	BLA	, 50	St. Charles
T.L. D Theren	HSLA	58	
John, Dorette Thayer		30	Clinton, Iowa
Johns, Donald Charles Johns, Wilford Espin	MnE	1	Danville
Johns, Wiltord Espin	Agr LA (SS)	641	Rockford
Johnson, Alice Sarah, B.L.S., 1907	LA (SS)	176 1	Champaign
Johnson, Alice Sarah, B.L.S., 1907 Johnson, Alice Sarah, B.L.S., 1907 Johnson, Mae Goldie Johnson, Harry Julius Johnson, Harold Sucese Lohnson, Louis Samuel	CE		Batavia
Johnson, Mae Goldie	SS	7	Basil, O .
Johnson, Harry Julius	Agr		Gerlaw
Johnson, Harvey Judd	ΕĔ	108	Sycamore
Tohnson Harold Sucese	A	46	Chicago
Tahmaan Lawia Samual	Agr (SS)	49	Champaign
Johnson, Louis Samuel Johnson, Mary Fern	LA	17	Urbana
Johnson, Mary Fern			Orbana Omele Wet
Johnson, Maurice Carl Johnson, Maynard Wayne	ME		Omaha, Neb.
Johnson, Maynard Wayne	BLA	4	Cincinnati, O.
Johnson, Nelle Irene Johnson, Radford Murray Johnson, Ralph Martin	LA	90	Carmi
Johnson, Radford Murray	Agr		Crossville
Johnson, Ralph Martin	LA		Peoria
Johnson, Raymond Rodger	EE		Ironton, O.
Johnson Robert Carl	\overline{BLA}	63	Pana
Johnson, Raymond Rodger Johnson, Robert Carl Johnson, Robert Eugene Johnson, Robert Ulysses	EE		Lowrenceburg, Ky.
Tohnson Dobert Illusons	A	100	Chicago
Tahasaa Cadaay Vont	$\stackrel{A}{B}LA$	2	Maguial N V
Johnson, Sydney Kent	DLA	2	Norwich, N. Y.
Johnston, Clarence William Henry	EE .		Pittsfield
Johnston, Dwight Irwin	BLA		Seymour
Johnston, Irving West	Agr	$12\frac{1}{2}$	Champaign
Johnston, Clarence William Henry Johnston, Dwight Irwin Johnston, Irving West Johnston, Ruby Aileen	LA		Lamar, Colo.
Johnston, Vern Irle	Agr	30	Sidney

7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	25	Tiliobolia
Johnston, Wilbur Russel	Agr	25	Illiopolis
Johnstone, Andrew John	Agr	102	Bloomington
Johnstone, Andrew John Johnstone, George Rufus	S SS	96	Galva
lones Alexander Henry	22	8	Metropolis
Jones, Darrell Clinton Jones, David Robert Jones, Herbert Milton Jones, John Ryan Jones, Lloyd Theodore, A.B. (Lake	ME		Oblong
Jones, David Robert	CE		Streator
Jones, Herbert Milton	REE	$55\frac{1}{2}$	Chicago
Jones, John Ryan	Agr	$23\frac{1}{2}$	Williamsville
Iones, Lloyd Theodore, A.B. (Lake			
	SS		Raymond
Jones, Milton Doerr	EE	97	Raymond
Iones Orion Chester	Md	16	Redmon
Tones I Duccell	BLA		Springfield
Jones, Orion Chester Jones, J Russell Jones, Paul Clifford	EE		Henry
	A	54	Tulsa, Okla.
Jones, Paul Erastus Jones, Robert Taylor, B.S., 1912 Jones, Rupert Forrest Jones, Walter Ortis Jones, Walter Wellman Jory, Herbert W Locab, Ada Kathyan	Mus	148	Vincennes, Ind.
Jones, Robert Taylor, B.S., 1912			
Jones, Rupert Forrest	ĘΕ	108	Champaign
Jones, Walter Ortis	LA		Champaign
Jones, Walter Wellman	LA (SS)	4	Braceville
Jory, Herbert W	A	75	Chicago
	Mus	25	Jasper, Ind.
Joy, Donald Cooper	ME		Jacksonville
Toyner, Mildred	LA		Harrisburg
Joy, Donald Cooper Joyner, Mildred Judson, Bryant Escar	ME	31	Evanston
Jue, Chow Quon	Agr	10	Canton, China
Tue Took Hing	BLA	20	Canton, Chi na Canton, Chi na
Jue, Jook Hing June, Marjorie Marie	HSLA	31	Belvidere
Jungkunz, Louis Frederic	BLA		Freeport
Jutton, Emma Reed, B.L.S., 1899	LA	1203	Champaign
Walter Thomas D	Agr	$34\frac{1}{2}$	Carlyle
Kahlert, Thomas D Kaiser, Oscar Ambrose	Ch	42	Somonauk
Kaiser, Oscar Ambrose	Cn	42	
Kamm, Rufus Maurice Kamm, Wilbur Fred	S S		Highland
Kamm, Wilbur Fred		20	Highland
Kan Chen Chi	BLA (SS)	38	Shanghai, China Geneva, N. Y.
Kane, Albert John Kane, Edwin Lyle McVicker Kane, Robert Clair Kane, Roy Alexander	CE		Geneva, N. Y.
Kane, Edwin Lyle McVicker	Agr		Henry
Kane, Robert Clair	EE		Warren
Kane. Roy Alexander	\boldsymbol{A}	85	Sanborn, Ia.
Karcher, Frank Joseph Karges, Henry Gilbert	Md	76	Herscher
Karges, Henry Gilbert	AE	77	Evansville, Ind.
Karkow, Waldemar	CE	1091	Chicago
Karr, Ernest Cade	Agr		Seymour
Kasserman, Frederic Doty	Agr		Newton
Kasserman, Homer Frank	LA		Newton
Vastlei Bandoloh Cocil	Agr ch	61	Chicago
Kastler, Randolph Cecil Kattner, Dorothea	Agr sp SS	61	Mt. Vernon
Kattner, Dorotnea	AE	6	Chicago
Katzenberg, Herman Stanley	A (SS)	18	
Kaufman, George Bremner	A (SS) SS		Morrison, Ia.
Kaufmann, Myrtle Louise	22	$5\frac{1}{2}$	Freeport
Kaun, Robert Ferdinand Kaun, Walter Valentine	EE (SS)	115	Ottawa
Kaun, Walter Valentine	EE	$108\frac{1}{2}$	Ottawa
Kavanagh, Richard John Kavanaugh, Daniel Francis Kawamoto, Tane Jackson	LA		Peoria
Kavanaugh, Daniel Francis	EE	$1\frac{1}{2}$	Moline
Kawamoto, Tane Jackson	EE	28	Asaka, Japan
Kay, Charles John	EE	108	Aurora
Kay, Charles John Kay, George Joseph Kazar, Jay Justin Keefer, Ruth Farwell	EE	108	Aurora
Kazar Tay Tustin	ME	59	Aurora
Keefer Ruth Farwell	I.A	59 82 75	Amboy
Keehner, Arch Floyd	LA CE	75	Jerseyville
Keen, Frances Ford	LA	33	Pueblo, Colo.
France Albert William	Cer	36	Litchfield
Keese, Albert William Keese, Frances Alberta Keese, William John	22	41	Litchfield
Meese, Flances Alberta	SS S_	24	Telebaning Mich
Keese, William John	ME		Ishpeming, Mich.
Kenior, James Malcolm		38	Kenosha, Wis.
Keiser, Katie	SS	3	Mt. Olive
Keith, Laurence Prescott	AE	1573	Whittier, Calif.
Kehlor, James Malcolm Keiser, Katie Keith, Laurence Prescott Kell, Sherman Little	SS	45	Kell

TZ 11 A 1 D	ME		Mt Cannal
Keller, Arthur Raymond	ME		Mt. Carmel
Keller, Florence	LA	74	Chicago
Keller, Raymond Franklin Kelley, Alfred Pruden	Agr sp		Delaware, O.
Kelley, Alfred Pruden	LA		Champ aign
Kelley, Francis Hugh	Agr	34	Urbana
Kelley, Henry Phillips Kelley, Lena Kelley, Mae Elizabeth Kelley, Ralph Leverett	Agr		Elgin
Kelley, Lenn	SŠ	16 1	Danville
Kelley, Lella	LA (SS)	021	Loda
Kelley, Mae Elizabeth	LA (33)	93 1 99 1	
Kelley, Kalph Leverett	A_{-} (SS)	992	Elgin
Kelligar, Zeta Eloise	LA		Pana
Kellogg, Amelia Lucinda	LA		Aurora
Kellogg, Chester Arthur	EE	37	Chicago
Kelly, Fred Hanford	LA		Mattoon
Kelly, Howard Walton, Jr.	Agr	30 1	Normal
Waller Day Androw	Agr	302	Pittsfield
Kelly, Ray Andrew Kemp, Orval Alton			
Kemp, Orvai Aiton	Agr	0.4	Waynetown, Ind.
Kendall, Clinton Dwight Kendall, James Henry Kennedy, Hannah Ellen Kennedy, Luther Eugene Kenner, Byron Florence	BLA	24	Oak Park
Kendall, James Henry	CE	61	Oak Park
Kennedy, Hannah Ellen	LA		Pana
Kennedy, Luther Eugene	ChE	57	Springfield
Kenner Byron Florence	ME	32	Pasadena, Calif.
Kennicott, Sylvia Adelia	LA	• •	Chicago
Zant Engelt Engels	Agr		Gridley
Kent, Everett Frank			
Kent, Lee Carson	EE	130	Gridley
Kenyon, Frederick Newcomb	Agr	98	Peoria
Keran, Paul Clemens	L	71	Champaign
Kercher, Oscar B Kercher, Otis	CE (SS)	75	Goshen, Ind. Goshen, Ind. Rockford Rockford
Kercher Otis	Agr	60	Goshen, Ind.
Kern, Esther Allen	HSLA	60	Rockford
V E Lames		101	Dockford
Kern, Evans Sherwood	Agr	101	Chartest
Kern, Edward Lester	EE		Streator
Kern, Fred	S		Clinton
Kern, Fred Kern, Lowell Davidson	S L sp CE	50	Watseka
Kernoll, Russell Twist	CE		Rochester
Kerr, Robert Hewston	ME		Attica, Ind.
Kerrigan Paul Francis	S SS EE	63	Michigan City, Ind.
Kerrigan, Paul Francis Kessinger, Ruth	22	10	Litchfield
Kessinger, Kuth	55		Vintered
Kessier, Clarence Henry	ĔE	108	Kirkwood
Kessler, Raymond Blaine	L	24	Robinson
Kessler, Clarence Henry Kessler, Raymond Blaine Kibbe, Kyle Albert Kibbe, Leslie Arthur	S		Urbana
Kibbe, Leslie Arthur	AE		Urbana
Kidd, Albert Eugene, Jr.	BLA	53	Chicago
Kidd George Wilson	CE	33	Chicago
Kidd, George Wilson Kidd, Lilace Mazoe	LA sp	-	Astoria
Villa Habert Ct Clair	EE SP	78	Minier
Kilby, Hubert St.Clair Kile, Walter Terrence		26	Paris
Kile, Walter Terrence	LA		runs
Kimbell, Arthur Willis	CE	108	Urbana
Kinber, Alice Emma	Mus sp		Springfield
Kincade, John Dudley King, Charles Stanley King, DeWitt Leonard	\boldsymbol{A}		Kansas City, Mo.
King, Charles Stanley	EE	42	Rock Island
King, DeWitt Leonard	ME		Tonica
Ving Eva Certrude		2	Urbana
King, Eva Gertrude King, Florence Beeson	SS HSAgr		
King, Florence Beeson	HSAgr ME (SS) HSAgr (SS	42	Tincoln
King, Jeff Johnson King, Lillian May King, Mark Ward	ME (33)	. 02	Diment
King, Lillian May	HSAgr(33)) 98	Plymouth
King, Mark Ward	EE	32½ 21	Roodhouse
Kinsey, Ernest Gilmore Kipp, Marion	Agr	32]	Centralia
Kinn, Marion	Agr	21	Mineral
Kirby, Wayne Isaac	A	90	Decatur
Visches Asmin Mostin	RCE	5	Chicago
Kircher, Armin Martin Kircher, Helmuth Julius	102	2.3	Chicago
Kircher, Heimuth Junus	Agr	110	Waynatoea Wie
Kirchnoff, Roger Charles	A	117	Carbondal
Kirk, Bonum Lee		44	
Kirk George Godwin	L	7.7	D. II. fl
Kirk, George Godwin	$\frac{L}{Agr}$	65	Belleflower
Kirk, Hadden Spurgeon	L Ag r LA	65 33	Belleflower Belleflower
Kirk, George Godwin Kirk, Hadden Spurgeon Kirk, Howard Safford	L Ag r LA A	65 33 63 1	Centrana Mineral Decatur Chicago Chicago Wauwatosa, Wis. Carbondale Belleflower Belleflower Colton, Wash.

Kirkland, Annirene	LA	68	Urbana
Windland Analikald Paulan	4 (00)		
Kirkland, Archibald Farley	A(SS)	34	Cambridge
Kirkpatrick, Charles Hubert Kirkpatrick, Earl Henry Kirkpatrick, Frank Allen Kirkpatrick, Nell Ruth Kirkpatrick, Sidney Dale Kirkpatrick, William Stewart Kirkwood, Roger Kisselburg, Bert Mills Kissick, Fran	BLA		Lafayette, Ind.
Kirkpatrick, Earl Henry	Agr	231	Roseville
Kirkpatrick Frank Allen	Cer E	81	Unionville, Mich.
Violentainia Nati Dest	TICIA		Ontonome, Mich.
Kirkpatrick, Neil Kuth	HSLA	64	Moline
Kirkpatrick, Sidney Dale	ChE		Urbana
Kirkpatrick, William Stewart	CE	42	Kentland, Ind.
Kirkwood Dogge	Agr	16	
Transland De A Mille		10	Lawrenceville
Kisselburg, Bert Mills	Agr		Chicago
Kissick, Ena	HSLA		Tiskilwa
Kitterman, Robert Max	ME		Tiskilwa
Viame Daham Hamman			
Klank, Frances Grace Klehm, George Charles Henry Klein, Carroll Aaron Klein, Florence Klein, Minnie George Klein, Nancie Klein, Nancie	Agr		Chicago .
Klank, Frances Grace	LA		Champaign
Klehm, George Charles Henry	Agr	31	Arlington Heights
Klein Carroll Aaron	A		Davenport, Ia.
Vicin Florence	HSLA		
Kielli, Florence			Roachdale, Ind.
Klein, Minnie George	HSS	66	Urbana
Klein. Nancie	SS SS	$28\frac{1}{2}$	Urbana
Kleinbeck, Stella P	22	132	Litchfield
Vising the Damie Time	33		
Kleinschredt, Bernie Lloyd	Agr	65 1	Morrison
Klemme, LaVon Mildred Klemme, Vivian Gertrude	Mus		Dows, Iowa Dows, Iowa
Klemme, Vivian Gertrude	LA		Dozus Lozua
Kline Byron Dooley	Agr		LeRov
Kline, Byron Dooley Klingensmith, Paul Opher			
	A_{-}		Indianapolis, Ind.
Klippel, Gustav Chapin	ChE		Indianapolis, Ind.
Klontz, Clayton Wilson	SS CE	$74\frac{1}{2}$	McConnell
Klopp Charles Corr	CF	2	El Paso
Variation Charles Etterant	CC		
Klopper, Gustav Chapin Klontz, Clayton Wilson Klopp, Charles Gorr Knapp, Charles Ellsworth	SS		Rushville
	CE	37	Ottazva
Knapp, Martha Winifred.			
A B (Ohio Weslevan Ilnia) 1800	Lb	41	LeRoy, Ohio
L'acceptance Harry France			
Knappenberger, marry Farrar	A	83	Macomb
Knapp, Martha Winifred, A.B. (Ohio Wesleyan Univ.) 1899 Knappenberger, Harry Farrar Kneisly, Nathaniel McKay	Agr	63 1	Guthrie, Okla.
Knemeyer Edward Branz	\boldsymbol{A}	72	Guthrie, Okla. Mason, Nevada
Knight, John Clement Knight, Paul	Agr	713	Yorkville
Valaba Dani	BLA		
Kingit, Laui		30	Wabash, Ind.
Knodle, Cary Lee Knoebel, Wilbert George	ME (SS)	40	Elgin
Knoebel, Wilbert George	\boldsymbol{A}	34 1	Highland
Knowlton, Elizabeth	HSLA	69	Urbana
Knowlton, Miriam Knowlton, Philetus Clarke, Jr. Knox, Leo Melville	LA	66	Urbana
To the Diller Class To			
Knowiton, Philetus Clarke, Jr.	A	99	Memphis, Tenn.
Knox, Leo Melville	Agr	32 1	Morrison
Knox, Leta Alice	HSAgr	-	Morrison
Know Low T			Morrison
KHOX, LOY J	Agr	• •	
Knox, Leta Alice Knox, Loy J Knox, Otela Knox, Raymond Kenneth	Mus	30	Chicago
Knox, Raymond Kenneth	\boldsymbol{A}	120	Pittsfield
Knudsen, Charles William	Ch (SS)	104	New Berlin
Kobylanski, Joseph Ludwick	AE	33	Chicago
Tody landski, Joseph Budwick			
Koch, Charles Edward Koch, Harvey Charles	ME	36	Danville
Koch, Harvey Charles	ME	67	Cloquet, Minn.
Koehler, John	AE		Tacoma, Wash.
Koenke, Edward Robert	CE		Chicago
Kohin Thomas Francis	ChE		
Konin, Thomas Francis			LaṢalle
Nonour, Jerome Francis	Ch	119	Chicago
Koll, Mary Elizabeth	HSLA		Chicago
Kochler, John Koepke, John Koepke, Edward Robert Kohin, Thomas Francis Kohout, Jerome Francis Koll, Mary Elizabeth Kollmeyer, Carl Schwartzkopf Koo Virlsing	BLA		Columbus, Ind.
Koo, Vi-Tsing	EE (SS)	82	Shanghai, China
	CI (00)		
Kopf, Frank Elexander	Ch	68	Champaign
Koptik, George Korb, Helen Lydia	5		Chicago
Korb, Helen Lydia	SS	8	Lincoln
Koronski, George W	\$ \$\$ \$\$	5	Narberth, Pa.
Korshak Sam		~~	
Koronski, George W Korshak, Sam Kosters, Stuart Farnsworth	4		
	A	70	Chicago
Kosters, Stuart Parnsworth	$\overset{A}{CE}$	117	Chicago
Koupal, Agnes R	A CE HSLA	117	Chicago Chicago
Koupal, Agnes R Krabbe, Edward Max	$\overset{A}{CE}$		Chicago

Kraeckmann, Arthur Endres	Agr		Chicago
Kraeger, John Franklin Kramer, Charles George Kramer, Jesse C	Ch_	118	Pekin
Kramer, Charles George	MnE	36	Dorchester, Mass.
Kramer, Jesse C	EE	111	Chicago
Krebaum, Alta Krebs, Wilbur Edward Krebs, William Samuel	ŞS		Havana Ballawilla
Krebs, Wilbur Edward	${}^{LA}_{BLA}$	100	Belleville
Krebs, William Samuel	ME ME	100	Oak Park Chicago
Kriegh, Elie Spencer Kritzer, Richard Walker	Agr		Chicago
Kromer Carrie Adelaide	LA	32	Elgin
Krueger, Kurt Carl Krueger, Otto Arthur	Ch	J.	LaSalle
Krueger Otto Arthur	AE	36	So. Bend, Ind.
Krug, Louis Gustave	ChE	•	Chicago
Ku, Tsong-Lin	LA	63	Shanghai, China
Kuerschen, Albert Peter	CE		Carlinsville
Kugler, Martin Billmire	CE	36	Yorkville
Kuhl, John Henry, Jr.	AE	111	Peoria
Kugler, Martin Billmire Kuhl, John Henry, Jr. Kuhn, Henry Harrison Kuhn, Wilfred Henry	AE ME CE CE	73	Rock Island
Kuhn, Wilfred Henry	CE	41	Chicago
Kuhnen, Proctor George	CE		Dixon
Kuhns, John Christian Kupper, Walter Jacob	EE	57 1	Argenta
Kupper, Walter Jacob	Agr	071	Peoria
Kurt, John Joseph Kurt, Leo Peter, Jr.	ME ME (SS)	87½	Champaign
Kurt, Leo Peter, Jr.	ME (SS) EE	29 44	Champaign Chicago
Kyle, George Lane	LA	44	Chicago Lawrenceville
Lackey, Kate	Agr sp		Medford, Ore.
Lackey, Aate LaClair, Strawn Lafferty, George Gustavus Lafferty, John Sam LaFrenz, Grace Etheridge	SS	23	Knoxville
Lafferty John Sam	AE	55	Ashley
LaFrenz, Grace Etheridge	LA	28	Bushnell
LaFrenz, Grace Etheridge Lakoff, Charles Benjamin Lamb, Edith Jane	Ch		Chicago
Lamb, Edith Jane	LA (SS)	66	Champaign
Lambroff, Gregory Vesileff	EE		Madison
Lambroff, Gregory Vesileff Lamkey, Ernest Michael Rudolph Lamkins, Loyde E	S (SS)	110	Riverton
Lamkins, Loyde E	Agr		Champaign
	Agr		Kingston
Lancaster, Ruth Ellen Landee, Anna Irene Landee, Marian Charlotte	LA	35	Maywood
Landee, Anna Irene	LA	31	Moline -
Landee, Marian Charlotte	LA sp	8 72	Moline
Landon, Herbert Updike	Agr CE	12	Jerseyville Rockford
Landry, Adelbert Joseph Lane, Cora May Lane, Henry Harold	LA (SS)	91	Danville
Lane, Cora May	BLA	,,	Harvey
Langan, Clarence Leo	Agr sp	281	
Lange, Lloyde H	CE	202	Rockford
Lanier, Russell D'Lvon	RME (SS)	57	Birmingham, Ala.
Lansche, Oral Albert	EE		Brighton
Lantz, Cyrus William	S LA	$105\frac{1}{2}$	
Lansche, Oral Albert Lantz, Cyrus William Lantz, Etta Mable	LA	74	Carlock
	BLA	821	
Largent, Jess Charles	AE	1051	Champaign
Larkin, Francis DuLude	S (SS) LA	1051	Chicago
Larkin, Ida Clementine	AE	106 111	Kansas City, Kans.
Larkin, William James, Jr.	S	25	Chicago Elgin
Lanum, riarold baird Largent, Jess Charles Larkin, Francis DuLude Larkin, Ida Clementine Larkin, William James, Jr. Larsen, David Thorsten Larsen, Lester Reginald	ME	108	Chicago
	HSLA	62	Chicago
Larson, Eva Lillian Larson, Irving Nicholas	A		
Larson, Lambert Linus	ChE	64	Mazon
Larson, Lambert Linus LaRue, Maurice John	Agr sp	91	Chicago
LaSell, Florence Lenore	Mus		Champaign
Lathrop, Charlton Page	Agr		Chicago
Lattin, Robert Thomas	EE	120	Hamilton, Ontario
Lathrop, Charlton Page Lattin, Robert Thomas Latzer, Irma Ada	HSS	59	Highland
Lauterbach, Edward George	Agr	22	Bushnell
Lavadia, Pedro Celestino	Agr sp	31	Pagsanghan, P. I.

Lawless, Joseph Conrad	Agr	55	Carthage -
Lawless, Joseph Conrad Lawnin, Nelson	ME	00	Edwardsville
Lawrence Ernest	Agr	66	Hudson
Lawrence, Lorena Lucille Laws, Joel William	HSLA	•	Clinton
Laws, Ioel William	Agr sp		Donnellson
Lawton, Bradley Cleaver	BLA	23½	Cleveland, Ohio
Lay, Chung-Yuen	CE sp	21	Huleh, China
Layden Theodore Edmond	Agr	108	Cheneyville
Layden, Theodore Edmond Leach, Margaret Fanny	HSLA	101	Chicago
Leander, Elmer Isidor	CE	101	Chicago
Leander, LeRoy Nathaniel	EE		Chicago
Leatherman, Marian,			Chicago
A.B. (Cornell Univ.) 1907	Lb		Pittsburg, Pa.
Lorung Arthur Power	AE	35	
Leavens, Arthur Fowen		33	Kansas City, Mo.
Leavens, Arthur Fowen Leavitt, Herbert Douglas Lecour, Louis Paul	Agr		Bloomfield, Ind.
Lecour, Louis Faul	Agr sp		Kankakee
Ledgerwood, Leroy William	AE	40	Springfield, Mo.
Lee, Carrie Alice	Mus	19	Champaign
Lee, Everett Samuel	EE	108	River Forest
Lee, Izora	HSAgr	67	Aledo
Lee, Thomas Wikoff	Agr sp		Kansas City, Mo.
Lee, William Hamilton	L S	28	Urbana
Lee, Ying Nan	S	76	Shanghai, China
LeeToma, Ethel Kinkyan	LA		Honolulu, Hawaii
Leibsle, Roy Walter	A		Des Moines, Ia.
Leichaeuring, Max Fredrich	AE	17	Chicago
Lee, Everett Samuel Lee, Izora Lee, Thomas Wikoff Lee, William Hamilton Lee, Ying Nan LeeToma, Ethel Kinkyan Leibsle, Roy Walter Leichaeuring, Max Fredrich Leighty, Wayne Snyder	Agr		Billett
Leiserwitz, Samuel Brody	Md	26	Herscher
Leiserwitz, Samuel Brody LeKander, Roy Edward Lekberg, Carl Helge Samuel Lemmon, Edgar Guy	CE		West Chicago
Lekherg, Carl Helge Samuel	EE	72	South Chicago
Lemmon, Edgar Guy	\widetilde{BLA}		Roodhouse
Lemmon, Ross Barton	BLA		Roodhouse
Lemp, John Frederick	ChE		Alton
Lenhart, Norman Joseph	BLA		Mattoon
	EE		
Lenz, Andrew Henry	ChE		Quincy Chicago
Lenzing, Chester William Leonard, Frank Bonner, A.B., 1912	SS		Metropolis
Leonard, Frank Donner, A.D., 1912	Agr (SS)	25	Anna
Leonard, William Nathan	L^{gr} (33)	35	Belleville
Leopoid, Elmer Edward	BLA	15	Belleville
Leopoid, Roland Eugene	MnE	73	Highland
Lericne, Willis	ChE	107	
Leonard, William Nathan Leopold, Elmer Edward Leopold, Roland Eugene Leriche, Willis Leslie, Eugene Hendricks	ME		Ottawa
Leverenz, Artnur Charles Gustav		35	Elgin
Levin, Eli	Md	9	Indiana Harbor, Ind.
Levis, William Edward Levis, Walter Rhodes	L S	87	Alton
Levis, Walter Rhodes	٥,	30	Alton
Lewin, William Frank	Agr sp		Comstock, Nebr.
Lewis, Clara Vesta	HSLA	61	Cairo
Lewin, William Frank Lewis, Clara Vesta Lewis, John Edwin Lewis, Katharine, A.B., 1912	ÇE	75	Wheaton
Lewis, Katharine, A.B., 1912	Lb		Chicago
Lewis, Louise Laura Lewis, Luther Mason	HSAgr (SS	5) 93	Cairo
Lewis, Luther Mason	L		Chicago
Lewis, Llewellyn Roy Lewis, Thomas Dickerson Lewis, Thurlow Girard	รีร	Ó	Mexico City, Mex.
Lewis, Thomas Dickerson	S		Wheaton
Lewis, Thurlow Girard	L(SS)		Sesser
	ME(SS)	20	Foo-Chow, China
Liang, Tu Hung	Agr CE (SS) Agr sp	30	Canton, China
Lichter, John Paul	CE (SS)	36	Chicago
Lidster, Homer Edward	Agr sp		Chicago
Liggett, David Carl	Agr sp Md (SS)	$115\frac{1}{2}$	Camp Point
Liang, Fisun-Ying Liang, Tu Hung Lichter, John Paul Lidster, Homer Edward Liggett, David Carl Liggett, Irene Lillian	L.A	_	Camp Point
Liggett, Leslie Alvin	CE	731	Peoria
Light, Curtis Roy	CE CE	103	Brook, Ind.
Light, Vera	T A	27	Chrisman
Liggett, Leslie Alvin Light, Curtis Roy Light, Vera Lillie, Jacob Samuel	SS	11	W. LaFayette, Ind.
Linbarger, Silas Carl	CerE	33	Champaign
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Lindborg Coorne Icadore	ME	25	Duinaston Mich
Lindberg, George Isadore	SS	35	Princeton, Mich.
Linder, Grace Linder, Lewis S	స్త్రా	50	Urbana
Linder, Lewis S	Ş	651	Charleston
Lindley, Bess Mae Lindley, Ida Hubbard	LA	65	Urbana
Lindley, Ida Hubbard	LA	27	Urbana
Lindmark, Edward Emanuel	CerE		Sycomore
Lindquist, Fred Arthur Lindsay, Horace Willard Lindsey, George Heath	ME		Plano
Lindsay, Horace Willard	EE		Rockford
Lindsey, George Heath	EE	47	St. Louis, Mo.
Link, Earl John	Agr	491	Forreston
Link, Hilah Tane	LA	30	Champaign
Linskey, Frances	SS	6	Streator
Linskey, Frances Linsley, Clyde Maurice Lippe, Raymond Wills Liss, Oscar Lippman	Agr	331	Fairfield
Linne Raymond Wills	SS	52	Champaign
Lippe, Raymond Wins	CE (SS)	69	Lodz, Russia
Liss, Oscar Lippinan	BLA	52	
Little, Alfred Leonard		32	Chicago
Little, Charles Reeves	BLA	40	Urbana
Little, Ethel Esther	S	49	Champaign
Little, Janet Gertrude Little, Mrs. Julia Bush	<u>s</u> s	7	Kingsley, Iowa
Little, Mrs. Julia Bush	Mus	8	Champaign
Littler, Carrie	SS	6	Potomac
Livesay, Ruth Flagg	LA		N as h v i l l e
Livesay, Wallace Bright Lloyd, Thomas Harold	AE		Waynesboro, Va.
Lloyd, Thomas Harold	Agr	25	Girard
Locke, Clara Edith	HSS	96	Terre Houte, Ind.
Loeffer Frank Xavier	CE	110	Chicago
Loeffler, Frank Xavier Loehr, Theodore Edwin Loh, Pao Kan	LA	139	Carlinville
Loem, Theodore Edwin	100 (CC)		See Cheen Chine
Lon, rao Kan	Agr (SS) RME sp	$115\frac{1}{2}$	
Lohnes, Willard Henry	RME SP	-00	Cherokee, Ia.
Lohr, Louis Warren	BLA	99	Pana
Long, John Oras Long, Thomas Henry	LA	_	Watseka
Long, Thomas Henry	Agr sp	1	Harmon
Longden, Grafton Johnson	Agr	401	
Longueville, Joseph Charles	\boldsymbol{A}	67 1	Dubuque, Io.
Loomis, Clayton Benjamin	Agr		Chicago
Loose, Isaac Arthur	Agr sp CE (SS)	12	Illiopolis
Lopez, Asuncion V	CĔ (ŜS)	841	Durango, Mex.
Lotz, Harold Benjamin	AE	• • •	Madison, Ind.
Loutzenhiser, Sarah Eula	\overline{LA}	103	Danville
Loutzenhiser, Sarah Eula Love, Clifford Sharon	Agr	200	Sidney
Loveless, William Raymond	ĈĔ	69	Altamont
Lowe, Ethelbert Coke	Ľ	0)	Robinson
Lowe, Etherbert Coke		64	
Lower, Paul Elton Lowry, Kathryn Ellen	Agr	04	Chicago
Lowry, Kathryn Ellen	Mus sp		Fairland
Luckett, Coen L	S	67	Terre Haute, Ind.
Luckhaupt, Fannie May	<u>ss</u>	$11\frac{1}{2}$	
Ludvik, Benjamin Edward Ludwig, Holly Jacob Ludwig, Lester John	LA		Chicago
Ludwig, Holly Jacob	Agr sp		Urbana
Ludwig, Lester John	LA		Ottawa
Luedke, Gustav Paul Lumley, Harold McLean	Ssp	631	Chatham
Lumley, Harold McLean	Agr	-	Urbana
Lumley, Leslie Robert Lund, John Virtus			Urbana
Lund, John Virtus	Agr CE		Elgin
Lunde, George Richard	Agr		Chicago
Lundgren, Frederick Gunnard	ME	35 1	Chicago
Lundin Poy Simeon	Agr	37	Chicago
Lundin, Roy Simeon Lundquist, Theodor Hjalmar		31	
Lundquist, Theodor Haimai	S	110	Buffalo, N. Y.
Luney, Edward Ross	ME	110	DeKalb
Luney, Ray Ilmothy	$_{CE}^{L}$	621	
Lurie, Erwin Moses	CE	89	Chicago
Lutz, Robert Stookey	EE SS	32	Decatur
Luney, Edward Ross Luney, Ray Timothy Lurie, Erwin Moses Lutz, Robert Stookey Lux, Thursa Edna		4	Monticello
Lyman, Lewis Inornton	Agr sp		Puna, Hawaii
Lynn, John Robert Lyon, John Bovd	A		Greensburg, Ind.
Lyon, John Boyd	Cer		LaHarpe
Lyons, Anna Frances	SS	8	Pontiac

	TTCT 4		77.1
Lyons, Carrie Fay Lyons, Hazel Sibyl Lyons, Lelen Margaret Lyons, John Daniel Lyons, Roy Jacob McAdams, May Elizabeth	<i>ḤSLA</i>		Urbana
Lyons, Hazel Sibyl	LA		Urbana
Lyons, Lielen Margaret	SS L	8	Pontiac
Lyons, John Daniel			Chicago
Lyons, Roy Jacob	Agr	713	Urbana
McAdams, May Elizabeth	Agr sp		Chicago
McAlee, Leo Gay	BLA		Springfield
McAnally, Jesse Franklin McArdle, Montrose Pallen	SS	8	Buffalo
McArdle, Montrose Pallen	\boldsymbol{A}	6	St. Louis, Mo.
McBeath, Grace	Mus	61	Urbana
McBroon, Leland Albert	\boldsymbol{A}	51	Grimes, Iowa
McBeath, Grace McBroon, Leland Albert McCabe, Claude Lee	LA	69₺	Grimes, Iowa Willow Hill
McCanna, David Thomas	Agr	5	Minneapolis, Minn.
McCarthy, Frank William	CE		Washington, D. C.
McCarthy, Frank William McCaskill, Kenneth Alexander	Agr (SS)	453	Taylorville
McCaughey, Louis Douglass	EE	981	Macomb
McCauley, Charles Hartman	\overline{A}	42	Chicago
McCaughey, Louis Douglass McCauley, Charles Hartman McCauley, James McCauley, George Lee	$\overline{L}A$. –	Harvard
McClelland George Leo	Agr	69½	Peoria
McClelland, George Leo McClelland, Miles John McClintock, Margaret Christine	\overrightarrow{AE}	072	Boise, Idaho
McClintool: Margaret Christine	HSAgr	107	Chicago
McCluscos Harry Bruce	ChE	31	Peoria
McCluggage, Harry Bruce McClure, Winifred Leo		12	
McClure, Winifred Leo	<u></u> HSS		Chrisman
McClurkin, Clifford Henry McConnel, Isaac Marion	$L_{\underline{I}}$	16	Morning Sun, Ia.
McConnel, Isaac Marion	Agr	70	Reynold s
McCormack, Joseph Hume McCormick, Elmer	ChE	12	LaSalle
McCormick, Elmer	ME	86 1	
McCoy, Alva Elisha McCoy, Henry James McCoy, John Jay	Agr		Altamont
McCoy, Henry James	Md	28	Amboy
McCoy, John Jay	Cer (SS)	53	Chicago Heights
McCracken, Howard Orr	Agr	63 1	Paxton
McCracken, Wendell Kemp	BLA		Paxton
McCracken, Howard Orr McCracken, Wendell Kemp McCulloch, Harry Weber	SS	$124\frac{1}{2}$	Milford
McCullough, Helen E McCumber, Charles william	SS HSLA		Urbana
McCumber, Charles william	AE	$10\frac{1}{2}$	Chicago
McCune, Joseph McCray McDavid, Joel Furnas MacDonald, Alexander Paul, Jr.	L	-	Kansas City, Mo.
McDavid, Ioel Furnas	LA	78	Hillsboro
MacDonald, Alexander Paul, Ir.	Agr		Morris
	MnE	71	Chicago
MacDonald, Herbert William McDougle, May McDougle, Verne Russell McElhiney, Florence	A	102	Chicago
MaDougla May	HSAgr	102	Charleston
McDougle, May	A		Charleston
McDougle, Verne Russell	LA sp		Kenney
McElliney, Florence	HSLA	23	Peoria
McEvoy, Myrtle Loretta McFall, Dumas Miller	LA	23	Mattoon
McFarland Don	Agr sp		McLean
McFarland, Dan McFarland, Ellis Dean		57	Camp Point
McCaraland, Ellis Deali	Agr	31	Lawrenceville
McGaughey, Guy Ennis	LA	741	
McGee, Edna Amelia	LA (SS)	$74\frac{1}{2}$	St. Joseph
McGhee, Ora M	Agr sp	35	Norris City
McGinnis, Albert Henry	Agr		Mendota
McGinnis, Albert Henry McGorrisk, Daniel Hunt McGrath, James McGraw, Katherine Leslie	AE	114	Des Moines, Ia.
McGrath, James	S.	$65\frac{1}{2}$	Springfield
McGraw, Katherine Leslie	LA	62	Urbana
McGrew, Charles Babcock	A	110	Lewistown
MacHatton, Ralph Alexander	LA sp		Robinson
MacHatton, Ralph Alexander MacInnes, Frances Jean McIntosh, Harold Stanton	S		Champaign
McIntosh, Harold Stanton	ME	106	Geneva
McIntyre, George Edward	AE	123	Monmouth
McIntyre, George Edward McIntyre, Mabel	LA (SS)	98	Newman
McKay, Dea David McKee, Josephine Pearl	L HSLA		Canton
McKee, Josephine Pearl	HSLA		Fairbury
McKee, Olivetta C	HSLA	67	Fairbury
McKeon, Joseph Moore	ME		Buffalo, N. Y.
McKeown, John Latimer	AE	36	Chicago
McKeown, John Latimer McKinney, Henry Theodore	LA (SS)	$115\frac{1}{3}$	
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McKinney, Myrtle McKnight, Joe Ben McKnight, Timothy Irl McLaughlin, James William	SS	2	Hudgens
Merchanicy, Myrthe		-	
McKnight, Joe Ben	Agr		Wiggins, Miss.
McKnight, Timothy Irl	L	$1\frac{1}{2}$	Oblong
McLaughlin James William	ME	100	Paris
MCLaughin, James William		100	
McLean, Martha McLean, Nicholas McLean, Sarah	HSLA		Macomb
McLean, Nicholas	E E		Princeton
Mal can Samb	SS	8	Geneva
McLean, Saran		0	
McLeod, George Cecil	Agr sp		Leakesville, Miss.
McManus, James B McMaster, William McMillen, George Burr	ŜŜ.	171	LaSalle
M. M Millian	Ţ	2.3	
McMaster, William	L_{-}		Bellefourche, S. D.
McMillen, George Burr	BLA	36	Champaign
McMullan, Henry Evan	S (SS)	98 1	Belleville, Mich.
	3 (33)	702	Ti'-11- ' D. 1
McPherson, Earle Steele	MÈ	$64\frac{1}{2}$	Highland Park
McRobie, Douglas McVay, Thomas Newkirk	Le r		Montclair, N. J.
Malian Thomas Namicals	CerE	102 66	Urbana
Micvay, Inomas Newkirk	CEIL	102	
MacVean, Lillian Imogene	LA	66	Toronto, Canada
McVeigh, Henry Hancock	Agr		Springfield
Malliator Daniel Watersine	DT 4	47	
McWethy, Daniel Valentine	BLA	67	Aurora
McWethy, Daniel Valentine McWilliams, Marie Lindsey Macis, John Raphael	Mus sp		Urbana
Magic John Panhael	CE		New York City
Macis, John Raphaer			
Madden, Grace Ermine	LA		Champaig n
Madden, Helen Louise	LA (SS)	351	Champaign
Madam America	AE	40	Farmar Cita
Madden, Grace Ermine Madden, Helen Louise Mader, August		40	Farmer City
Madsen, Olav Magee, Elon Charles	AE		Litchfield, Minn.
Marge Flon Charles	Agr	126 1	Geneseo
Magee, Lion Charles		1202	
Magruder, Denton, Adlai	LA		Potomac
Mahn, George Willis	AE		Urbana
Mahaad Hamma Comment	CE EE		
Mahood, Harry Samuel	CE		Mt. Carroll
Malaise, Clayton Lee	EE	75	Serena
Maley Robert Carleton	ME	34	Grays Lake
Malais Davilina Campaina		٠.	
Maloit, Pauline Germaine	LA		Elmhurst
Manley, Charles Thomas	SS SS	6₹	Butte, Mont.
Manley Myra Frances	2.2	2	Chambaian
Maley, Robert Carleton Maloit, Pauline Germaine Manley, Charles Thomas Manley, Myra Frances Manley, Pearl M	IIC Annah (CC 1 20	Champaign
Manley, Pearl M	HSAgr sp (33/39	Champaign
Manley, Verna Adaline Mann, Arthur Sidney Mann, Edith Melvina Mann, Harold Abraham	LA		Champaign
Mann Arthur Sidney	AE	70	Kankakee
36 Title 36 1		0.3	
Mann, Edith Melvina	LA	83	Kankakee
Mann, Harold Abraham	Agr sp		Mannville, Fla.
Mann, Harold Edward	Agr	071	Rossville
Maini, Haioid Edward	7197	772	
Marblestone, Rose Maris, Ward S	LA		Bicknell, Ind.
Maris, Ward S	Agr		Tuscola
Markley, Leland Stanford	Agr	1051	Grand Rapids. Mich.
Markley, Leland Stanford		1002	
Markmann, Carl Bennett	REE		St. Louis, Mo.
Markwell, Olen Crow	Agr		Stonington
Marguia Du Pais	Agr	110	Plannington
Markmann, Carl Bennett Markwell, Olen Crow Marquis, Du Bois Marquis, Leo Daniel	Ayr	110	Bloomington Milford
Marquis, Leo Daniel	A	40	Miltord
Marsh, Ethel Carrie			
	2.2.	64	St. Joseph
Marsh, Mallie Mars	SS	61	St. Joseph
Marsh, Nellie May	<u>SS</u>	6½ 6½	St. Joseph St. Joseph
Marsh, Nellie May Marshall, Frank Edward	SS SS EE	6½ 6½ 110½	St. Joseph St. Joseph Sercno
Marsh, Nellie May Marshall, Frank Edward Marshall James Ward	SS SS EE FF	6½ 6½ 110½	St. Joseph St. Joseph Serena
Marsh, Nellie May Marshall, Frank Edward Marshall James Ward	EE		St. Joseph St. Joseph Serena Chicago
Marsh, Nellie May Marshall, Frank Edward Marshall James Ward	EE Agr (SS)	17	St. Joseph St. Joseph Serena Chicago West Chicago
Marsh, Nellie May Marshall, Frank Edward Marshall James Ward	EE Agr (SS)	17	St. Joseph St. Joseph Serena Chicago West Chicago
Marsh, Nellie May Marshall, Frank Edward Marshall James Ward	EE Agr (SS) S sp	17	St. Joseph St. Joseph Serena Chicago West Chicago Gamaliel. Ky.
Marsh, Nellie May Marshall, Frank Edward Marshall James Ward	EE Agr (SS) S sp Agr	17	St. Joseph St. Joseph Serena Chicago West Chicago Gamaliel. Ky.
Marsh, Nellie May Marshall, Frank Edward Marshall, James Ward Marshall, Ralph William Marshall, Robert Haskell Martin, Claude J Martin, Clive C	EE Agr (SS) S sp Agr L	17	St. Joseph St. Joseph Serena Chicago West Chicago Gamaliel. Ky. Mason City Latham
Marsh, Nellie May Marshall, Frank Edward Marshall, James Ward Marshall, Ralph William Marshall, Robert Haskell Martin, Claude J Martin, Clive C Mortin Farl Ray	EE Agr (SS) S sp Agr L	17	St. Joseph St. Joseph Serena Chicago West Chicago Gamaliel. Ky. Mason City Latham
Marsh, Nellie May Marshall, Frank Edward Marshall, James Ward Marshall, Ralph William Marshall, Robert Haskell Martin, Claude J Martin, Clive C Mortin Farl Ray	EE Agr (SS) S sp Agr L Agr	17 22 25	St. Joseph St. Joseph Serena Chicago West Chicago Gamaliel. Ky. Mason City Latham Probhetstawn
Marsh, Nellie May Marshall, Frank Edward Marshall, James Ward Marshall, Ralph William Marshall, Robert Haskell Martin, Claude J Martin, Clive C Mortin, Farl Ray	EE Agr (SS) S sp Agr L Agr SS	17	St. Joseph St. Joseph Serena Chicago West Chicago Gamaliel. Ky. Mason City Latham Prophetstown Bridgeport
Marsh, Nellie May Marshall, Frank Edward Marshall, James Ward Marshall, Ralph William Marshall, Robert Haskell Martin, Claude J Martin, Clive C Mortin, Farl Ray	EE Agr (SS) S sp Agr L Agr SS BLA	17 22 25	St. Joseph St. Joseph Serena Chicago West Chicago Gamaliel. Ky. Mason City Latham Probhetstawn
Marsh, Nellie May Marshall, Frank Edward Marshall, James Ward Marshall, Ralph William Marshall, Robert Haskell Martin, Claude J Martin, Clive C Mortin, Farl Ray	EE Agr (SS) S sp Agr L Agr SS BLA	17 22 25	St. Joseph St. Joseph Serena Chicago West Chicago Gamaliel. Ky. Mason City Latham Prophetstown Bridgeport Mt. Carmel
Marsh, Nellie May Marshall, Frank Edward Marshall, James Ward Marshall, Ralph William Marshall, Robert Haskell Martin, Claude J Martin, Clive C Mortin, Farl Ray	EE Agr (SS) S sp Agr L Agr SS BLA LA	17 22 25	St. Joseph St. Joseph Serena Chicago West Chicago Gamaliel. Ky. Mason City Latham Prophetstown Bridgeport Mt. Carmel Sullivan
Marsh, Nellie May Marshall, Frank Edward Marshall, Ralph William Marshall, Robert Haskell Martin, Claude J Martin, Clive C Martin, Earl Rav Martin, Esther Evelyn Martin, Fay Waldo Martin, Joe Neely Martin, Robert Sackett	EE Agr (SS) S sp Agr L Agr SS BLA LA Agr	17 22 25 8	St. Joseph St. Joseph Serena Chicago Gamaliel. Ky. Mason City Latham Prophetstown Bridgeport Mt. Carmel Sullivan Chicago
Marsh, Nellie May Marshall, Frank Edward Marshall, Frank Edward Marshall, Ralph William Marshall, Robert Haskell Martin, Claude J Martin, Clive C Martin, Earl Rav Martin, Esther Evelyn Martin, Fay Waldo Martin, Joe Neely Martin, Robert Sackett Marx, Frederick August Kuhs	EE Agr (SS) S sp Agr L Agr SS BLA	17 22 25 8	St. Joseph St. Joseph Serena Chicago Gamaliel. Ky. Mason City Latham Prophetstown Bridgeport Mt. Carmel Sullivan Chicago
Marsh, Nellie May Marshall, Frank Edward Marshall, Frank Edward Marshall, Ralph William Marshall, Robert Haskell Martin, Claude J Martin, Clive C Martin, Earl Rav Martin, Esther Evelyn Martin, Fay Waldo Martin, Joe Neely Martin, Robert Sackett Marx, Frederick August Kuhs	EE Agr (SS) S sp Agr L Agr SS BLA LA Agr MSE	17 22 25 8 35½	St. Joseph St. Joseph Serena Chicago Gamaliel. Ky. Mason City Latham Prophetstown Bridgeport Mt. Carmel Sullivan Chicago St. Louis, Mo.
Marsh, Nellie May Marshall, Frank Edward Marshall, Fank Edward Marshall, Ralph William Marshall, Robert Haskell Martin, Claude J Martin, Clive C Martin, Earl Rav Martin, Esther Evelyn Martin, Fay Waldo Martin, Joe Neely Martin, Robert Sackett Marx, Frederick August Kuhs Masel, Max	EE Agr (SS) S sp Agr L Agr SS BLA LA Agr MSE ME	17 22 25 8	St. Joseph St. Joseph Serena Chicago Gamaliel. Ky. Mason City Latham Prophetstown Bridgeport Mt. Carmel Sullivan Chicago St. Louis, Mo. Alton
Marsh, Nellie May Marshall, Frank Edward Marshall, Fank Edward Marshall, Ralph William Marshall, Robert Haskell Martin, Claude J Martin, Clive C Martin, Earl Rav Martin, Esther Evelyn Martin, Fay Waldo Martin, Joe Neely Martin, Robert Sackett Marx, Frederick August Kuhs Masel, Max	EE Agr (SS) S sp Agr L Agr SS BLA LA Agr MSE ME BLA	17 22 25 8 35 \frac{1}{2}	St. Joseph St. Joseph Serena Chicago Gamaliel. Ky. Mason City Latham Prophetstown Bridgeport Mt. Carmel Sullivan Chicago St. Louis, Mo. Alton Urbana
Marsh, Nellie May Marshall, Frank Edward Marshall, Fank Edward Marshall, Ralph William Marshall, Robert Haskell Martin, Claude J Martin, Clive C Martin, Earl Rav Martin, Esther Evelyn Martin, Fay Waldo Martin, Joe Neely Martin, Robert Sackett Marx, Frederick August Kuhs Masel, Max	EE Agr (SS) S sp Agr L Agr SS BLA LA Agr MSE ME	17 22 25 8 35½	St. Joseph St. Joseph Serena Chicago Gamaliel. Ky. Mason City Latham Prophetstown Bridgeport Mt. Carmel Sullivan Chicago St. Louis, Mo. Alton
Marsh, Nellie May Marshall, Frank Edward Marshall, Frank Edward Marshall, Ralph William Marshall, Rohert Haskell Martin, Claude J Martin, Clive C Martin, Earl Rav Martin, Esther Evelyn Martin, Fay Waldo Martin, Joe Neely Martin, Robert Sackett Marx, Frederick August Kuhs Mason, Arthur Helgeson Mason, Ross Seguine	EE Agr (SS) S sp Agr L Agr SS BLA LA Agr MSE ME BLA ME	17 22 25 8 35 ½ 26 ½	St. Joseph St. Joseph Serena Chicago Gamaliel. Ky. Mason City Latham Prophetstown Bridgeport Mt. Carmel Sullivan Chicago St. Louis, Mo. Alton Urbana Buda
Marsh, Nellie May Marshall, Frank Edward Marshall, Fank Edward Marshall, Ralph William Marshall, Robert Haskell Martin, Claude J Martin, Clive C Martin, Earl Rav Martin, Esther Evelyn Martin, Fay Waldo Martin, Joe Neely Martin, Robert Sackett Marx, Frederick August Kuhs Masel, Max Mason, Arthur Helgeson Mason, Ross Seguine Masters, John Howard	Agr (SS) S sp Agr L Agr SS BLA LA Agr MSE ME BLA ME BLA ME BLA	17 22 25 8 35 \frac{1}{2}	St. Joseph St. Joseph Serena Chicago Gamaliel. Ky. Mason City Latham Prophetstown Bridgeport Mt. Carmel Sullivan Chicago St. Louis, Mo. Alton Urbana Buda Frankfort, Ind.
Marsh, Nellie May Marshall, Frank Edward Marshall, Fames Ward Marshall, Ralph William Marshall, Robert Haskell Martin, Claude J Martin, Cive C Martin, Earl Rav Martin, Esther Evelyn Martin, Fay Waldo Martin, Foe Neely Martin, Robert Sackett Marx, Frederick August Kuhs Masel, Max Mason, Arthur Helgeson Mason, Ross Seguine Masters, John Howard Mateer, Howard Wilson	Agr (SS) S sp Agr L Agr SS BLA LA Agr MSE ME BLA ME BLA ME ME BLA ME	35 1 26 2 3 7 120	St. Joseph St. Joseph Serena Chicago Gamaliel. Ky. Mason City Latham Prophetstown Bridgeport Mt. Carmel Sullivan Chicago St. Louis, Mo. Alton Urbana Buda Prankfort, Ind. Rutland
Marsh, Nellie May Marshall, Frank Edward Marshall, Fank Edward Marshall, Ralph William Marshall, Robert Haskell Martin, Claude J Martin, Clive C Martin, Earl Rav Martin, Esther Evelyn Martin, Fay Waldo Martin, Joe Neely Martin, Robert Sackett Marx, Frederick August Kuhs Masel, Max Mason, Arthur Helgeson Mason, Ross Seguine Masters, John Howard	Agr (SS) S sp Agr L Agr SS BLA LA Agr MSE ME BLA ME BLA ME BLA	17 22 25 8 35 ½ 26 ½	St. Joseph St. Joseph Serena Chicago Gamaliel. Ky. Mason City Latham Prophetstown Bridgeport Mt. Carmel Sullivan Chicago St. Louis, Mo. Alton Urbana Buda Frankfort, Ind.

Mathers, Aaron	BLA	60	Laura
Mathers Andrew Jackson	Agr	3 0	
Mathers Leclie Eugene	Agr	1111	Laurs
Mathers, Andrew Jackson Mathers, Leslie Eugene Mathers, Manley Bonham	197	1141	Momence
Mathers, Maniey Bonnam	Agr (SS)	202	2.2011101100
Mathes, Georgia	SS	. 6	Charleston
Mathews, Howard Mathews, William B	EE	111	Yates City
Mathews, William B	S (SS)	65 1	Yates City
Matteson Glenn Harlow	Ann	32 1	Fairfield
Mattingly, Leo Joseph Mattingly, William Brasher Mattis, Ida Levering Mattis, Mary Katherine, A.B. (Smith	AE		Champaign
Mattingly, William Brasher	Agr	641	Cairo
Mattis Ida Levering	Mus sp	39	
Mattic Mary Katherine A P (Swith	wins sp	39	Champaign
C.II) 1011	3.6		C
Coll) 1911	Mus		Champaign
Mattison, John Dwight	CE	37	Oregon
Mattoon, Edwin Whitaker	Md	33	Champaign
Mattison, John Dwight Mattoon, Edwin Whitaker Maury, Charles Fontaine	\boldsymbol{A}	130	Houston, Tex.
Maury, John Alvan	EE	108	Rossville
Maury, John Alvan Maury, Thomas Edward Mavity, Maurine Mavor, Hugh Nelson	\overline{ME}	75	Rossville
Mayity Maurine	HSLA	13	
Mann II. Nata	IISLA		Valparaiso, Ind.
Mayor, riugh Nelson	AE		LaGrange
Maxwell, Harold Dillon	LA		Urbana
May, Clifford Blaine	Agr		Kirkland
May, Clifford Blaine May, Eric Oscar	Agr SS	8	Newton
Mayes, George William	EE	108	Champaign
Mealiff Arthur Edward	Agr	100	Chicago
Messer James Honey	EE'	64	
Measer, James Henry Meek, Charles Thaddeus Meek, Wilbur Mehl, Wallace Willis			Fairmount
Meek, Charles Inaddeus	Agr	103	Carrollton
Meek, Wilbur	LA		Carrollton
Mehl, Wallace Willis	L	58	Goshen, Ind.
Meisenhelder, Benjamin	EE		Palestine
Melcher, Woodbury Ranlet	Agr	26	Hinsdale
Melin, George Edgar	Agr	20	Moline
Meltz, Nathan	Agr sp		Ekaterinoslaw, Russia
Monolog Olive Mantle	Mus Sp		
Meneley, Olive Myrtle Mengel, George Henry Menke, Arnold Edward	Mus	0.01	Champaign
Mengel, George Henry	ChE (SS)	$87\frac{1}{2}$	Moline
Menke, Arnold Edward	S	26	Evansville, Ind.
Menke, Harry George	RCE	75	Quincy
Mercer, Walter Witchell	L	57	Vermont
	Md		
Mercey, Raymond John			St. David
Mercer, Walter Witchell Mercey, Raymond John Meredith Ing Valeria	N a	51	St. David
Meredith, Ina Valeria	S	51	St. David Perry
Meredith, Ina Valeria Merrill. Thompson Arlene	S BLA	99	St. David Perry Bcardstown
Meredith, Ina Valeria Merrill. Thompson Arlene	S BLA Md (SS)	99 27	St. David Perry Bcardstown Chicago
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Meserve, Theodore Decatur	S BLA Md (SS)	99 27 95	St. David Perry Bcardstown Chicago Robinson
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Meserve, Theodore Decatur Metz, Carl Altgeld	S BLA Md (SS) S CE	99 27	St. David Perry Bcardstown Chicago
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Messerve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul	S BLA	99 27 95	St. David Perry Bcardstown Chicago Robinson
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Messerve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice	S BLA Md (SS) S CE	99 27 95 36	St. David Perry Bcardstown Chicago Robinson Tolono Cairo
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Messerve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice	S BLA Md (SS) S CE BLA BLA	99 27 95 36	St. David Perry Beardstown Chicago Robinson Tolono Cairo Champaign
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Meserve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice Metzler, Curtis Vernon Meyer Carl Theodore	S BLA Md (SS) S CE BLA BLA ME	99 27 95 36	St. David Perry Perry Beardstown Chicago Robinson Tolono Cairo Champaign Strasburg
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Meserve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice Metzler, Curtis Vernon Meyer Carl Theodore	S BLA Md (SS) S CE BLA BLA ME A	99 27 95 36 31 30	St. David Perry Beardstown Chicago Robinson Tolono Cairo Champaign Strasburg Springfield
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Meserve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice Metzler, Curtis Vernon Meyer Carl Theodore	S BLA Md (SS) S CE BLA BLA ME A ME	99 27 95 36	St. David Perry Beardstown Chicago Robinson Tolono Cairo Champaign Strasburg Springfield Chicago
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Meserve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice Metzler, Curtis Vernon Meyer Carl Theodore	SELA BLA Md (SS) S CE BLA BLA ME A ME A A sp	99 27 95 36 31 30	St. David Perry Perry Beardstown Chicago Robinson Tolono Cairo Champaign Strasburg Springfield Chicago Davenport, Ia.
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Meserve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice Metzler, Curtis Vernon Meyer Carl Theodore	SBLA Md (SS) S CE BLA BLA ME A ME A sp ME	99 27 95 36 31 30	St. David Perry Beardstown Chicago Robinson Tolono Cairo Champaign Strasburg Springfield Chicago Davenport, Ia. Vincennes, Ind.
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Meserve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice Metzler, Curtis Vernon Meyer Carl Theodore	SELA BLA Md (SS) S CE BLA BLA ME A ME A A sp	99 27 95 36 31 30	St. David Perry Perry Beardstown Chicago Robinson Tolono Cairo Champaign Strasburg Springfield Chicago Davenport, Ia.
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Meserve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice Metzler, Curtis Vernon Meyer Carl Theodore	SLA BLA Md (SS) SCE BLA BLA ME A A ME A sp Asp Agr	99 27 95 36 31 30	St. David Perry Perry Beardstown Chicago Robinson Tolono Cairo Champaign Strasburg Springfield Chicago Davenport, Ia. Vincennes, Ind. Indianapolis, Ind.
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Messerve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice Metzler, Curtis Vernon Meyer, Carl Theodore Meyer, George, Jr. Meyer, George William Meyer, Orval Conrad Meyers, Paul Lillard Michael, Ethel Otille Sophia	SLA BLA Md (SS) S CE BLA BLA BLA ME A ME A sp ME Agr Mus ME ME	99 27 95 36 31 30 90	St. David Perry Perry Beardstown Chicago Robinson Tolono Cairo Champaign Strasburg Springfield Chicago Davenport, Ia. Vincennes, Ind. Indianapolis, Ind. Champaign
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Messerve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice Metzler, Curtis Vernon Meyer, Carl Theodore Meyer, George, Jr. Meyer, George William Meyer, Orval Conrad Meyers, Paul Lillard Michael, Ethel Otille Sophia Michael, Wilbur Harold	SLA BLA Md (SS) S CE BLA BLA BLA ME A ME A sp ME Agr Mus ME ME	99 27 95 36 31 30 90 21	St. David Perry Beardstown Chicago Robinson Tolono Cairo Champaign Strasburg Springfield Chicago Davenport, Ia. Vincennes, Ind. Indianapolis, Ind. Chicago
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Messerve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice Metzler, Curtis Vernon Meyer, Carl Theodore Meyer, George, Jr. Meyer, George William Meyer, Orval Conrad Meyers, Paul Lillard Michael, Ethel Otille Sophia Michael, Wilbur Harold	S BLA Md (SS) S CE BLA BLA ME A Asp ME A asp ME Agr Mus ME Mus ME Mus ME Mus ME Mus Me Mus Mus Mus Mus Mus Mus Mus Mus	99 27 95 36 31 30 90 21 81 107	St. David Perry Perry Beardstown Chicago Robinson Tolono Cairo Champaign Strasburg Springfield Chicago Davenport, Ia. Vincennes, Ind. Indianapolis, Ind. Champaign Assumption
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Messerve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice Metzler, Curtis Vernon Meyer, Carl Theodore Meyer, George, Jr. Meyer, George William Meyer, Orval Conrad Meyers, Paul Lillard Michael, Ethel Otille Sophia Michael, Wilbur Harold Middleton, Walter Stanley Miers, Roy Hamilton	S BLA Md (SS) S CE BLA BLA BLA ME A ME A ME Asp ME Agr Mus ME Agr sp	99 27 95 36 31 30 90 21	St. David Perry Beardstown Chicago Robinson Tolono Cairo Champaign Strasburg Springfield Chicago Davenport, Ia. Vincennes, Ind. Indianapolis, Ind. Champaign Chicago Assumption Burney, Ind.
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Messerve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice Metzler, Curtis Vernon Meyer, Carl Theodore Meyer, George, Jr. Meyer, George William Meyer, Orval Conrad Meyers, Paul Lillard Michael, Ethel Otille Sophia Michael, Wilbur Harold Middleton, Walter Stanley Miers, Roy Hamilton Miessler, Erich Carl	S Md (SS) S CE BLA BLA BLA ME A A A A A A B ME A A A A A A A A A A A A B A A	99 27 95 36 31 30 90 21 81 107 52	St. David Perry Beardstown Chicago Robinson Tolono Cairo Champaign Strasburg Springfield Chicago Davenport, Ia. Vincennes, Ind. Indianapolis, Ind. Champaign Assumption Burney, Ind. Crete
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Messerve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice Metzler, Curtis Vernon Meyer, Carl Theodore Meyer, George, Jr. Meyer, George William Meyer, Orval Conrad Meyers, Paul Lillard Michael, Ethel Otille Sophia Michael, Wilbur Harold Middleton, Walter Stanley Miers, Roy Hamilton Miessler, Erich Carl Miles, Eunice	S BLA Md (SS) S CE BLA BLA ME A sp ME Adgr Mus ME (SS) Agr sp S S HSLA	99 27 95 36 31 30 90 21 81 107 52	St. David Perry Perry Beardstown Chicago Robinson Tolono Cairo Champaign Strasburg Springfield Chicago Davenport, Ia. Vincennes, Ind. Indianapolis, Ind. Champaign Chicago Assumption Burney, Ind. Crete Garden City, Kan.
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Messerve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice Metzler, Curtis Vernon Meyer, Carl Theodore Meyer, George, Jr. Meyer, George William Meyer, Orval Conrad Meyers, Paul Lillard Michael, Ethel Otille Sophia Michael, Wilbur Harold Middleton, Walter Stanley Miers, Roy Hamilton Miessler, Erich Carl Miles, Eunice	S BLA Md (SS) S CE BLA BLA BLA ME A ME A sp ME A sp ME MS ME Agr S ME S HSLA Agr HSLA Agr Agr Agr Agr Agr Agr Agr Agr Agr Ag	99 27 95 36 31 30 90 21 81 107 52 23 60½	St. David Perry Beardstown Chicago Robinson Tolono Cairo Champaign Strasburg Springfield Chicago Davenport, Ia. Vincennes, Ind. Indianapolis, Ind. Champaign Assumption Burney, Ind. Crete Garden City, Kan. Lewistown
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Messerve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice Metzler, Curtis Vernon Meyer, Carl Theodore Meyer, George, Jr. Meyer, George William Meyer, Orval Conrad Meyers, Paul Lillard Michael, Ethel Otille Sophia Michael, Wilbur Harold Middleton, Walter Stanley Miers, Roy Hamilton Miessler, Erich Carl Miles, Eunice	S Md (SS) S CE BLA BLA ME A sp ME A sp ME Agr Mus ME (SS) Agr sp S HSLA Agr (SS)	99 27 95 36 31 30 90 21 81 107 52 23 60½	St. David Perry Perry Beardstown Chicago Robinson Tolono Cairo Champaign Strasburg Springfield Chicago Davenport, Ia. Vincennes, Ind. Indianapolis, Ind. Champaign Chicago Assumption Burney, Ind. Crete Garden City, Kan. Lewistown Urbana
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Messerve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice Metzler, Curtis Vernon Meyer, Carl Theodore Meyer, George, Jr. Meyer, George William Meyer, Orval Conrad Meyers, Paul Lillard Michael, Ethel Otille Sophia Michael, Wilbur Harold Middleton, Walter Stanley Miers, Roy Hamilton Miessler, Erich Carl Miles, Eunice	S BLA Md (SS) S CE BLA BLA ME A sp ME Adgr Mus ME (SS) Agr sp S S HSLA	99 27 95 36 31 30 90 21 81 107 52 23 60½	St. David Perry Beardstown Chicago Robinson Tolono Cairo Champaign Strasburg Springfield Chicago Davenport, Ia. Vincennes, Ind. Indianapolis, Ind. Champaign Assumption Burney, Ind. Crete Garden City, Kan. Lewistown
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Messerve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice Metzler, Curtis Vernon Meyer, Carl Theodore Meyer, George, Jr. Meyer, George William Meyer, Orval Conrad Meyers, Paul Lillard Michael, Ethel Otille Sophia Michael, Wilbur Harold Middleton, Walter Stanley Miers, Roy Hamilton Miessler, Erich Carl Miles, Eunice	S BLA Md (SS) S CE BLA BLA BLA BLA ME A Agr ME ME ME ME ME MS ME ME MS ME MS ME MS MA MA MS MA	99 27 95 36 31 30 90 21 81 107 52	St. David Perry Beardstown Chicago Robinson Tolono Cairo Champaign Strasburg Springfield Chicago Davenport, Ia. Vincennes, Ind. Indianapolis, Ind. Champaign Chicago Assumption Burney, Ind. Crete Garden City, Kan. Lewistown Urbana Garden City, Kan.
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Messerve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice Metzler, Curtis Vernon Meyer, Carl Theodore Meyer, George, Jr. Meyer, George, Jr. Meyer, George William Meyer, Orval Conrad Meyers, Paul Lillard Michael, Ethel Otille Sophia Michael, Wilbur Harold Middleton, Walter Stanley Miers, Roy Hamilton Miessler, Erich Carl Miles, Eunice Miles, Luther Fiske Miles, May Miles, Ruth Columbia	S BLA Md (SS) S CE BLA BLA BLA BLA ME A Agr ME ME ME ME ME MS ME ME MS ME MS ME MS MA MA MS MA	99 27 95 36 31 30 90 21 81 107 52 23 60½ 5	St. David Perry Perry Beardstown Chicago Robinson Tolono Cairo Champaign Strasburg Springfield Chicago Davenport, Ia. Vincennes, Ind. Indianapolis, Ind. Champaign Chicago Assumption Burney, Ind. Crete Garden City, Kan. Lewistown Urbana Garden City, Kan. Urbana
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Messerve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice Metzler, Curtis Vernon Meyer, George, Jr. Meyer, George, Jr. Meyer, George William Meyers, Orval Conrad Meyers, Paul Lillard Michael, Ethel Otille Sophia Michael, Wilbur Harold Middleton, Walter Stanley Miers, Roy Hamilton Miessler, Erich Carl Miles, Joseph Porter Miles, Luther Fiske Miles, May Miles, Ruth Columbia Mill, Robert Charles	SLA BLA Md (SS) S CE BLA BLA ME A A sp ME Agr Mus ME S S Agr sp Agr Agr Agr Agr SS Agr SS SS	99 27 95 36 31 30 90 21 81 107 52 23 60½	St. David Perry Beardstown Chicago Robinson Tolono Cairo Champaign Strasburg Davenport, Ia. Vincennes, Ind. Indianapolis, Ind. Champaign Chicago Assumption Burney, Ind. Crete Garden City, Kan. Lewistown Urbana Garden City, Kan. Urbana Garden City, Kan. Decalur
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Messerve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice Metzler, Curtis Vernon Meyer, George, Jr. Meyer, George, Jr. Meyer, George William Meyers, Orval Conrad Meyers, Paul Lillard Michael, Ethel Otille Sophia Michael, Wilbur Harold Middleton, Walter Stanley Miers, Roy Hamilton Miessler, Erich Carl Miles, Joseph Porter Miles, Luther Fiske Miles, May Miles, Ruth Columbia Mill, Robert Charles	SLA BLA Md (SS) S CE BLA BLA ME A ME A ME A ME A A sp ME A Agr Agr Agr (SS) Agr Agr Agr Agr CSS) HSLA Agr LA SS	99 27 95 36 31 30 90 21 81 107 52 23 60½ 5	St. David Perry Beardstown Chicago Robinson Tolono Cairo Champaign Strasburg Davenport, Ia. Vincennes, Ind. Indianapolis, Ind. Champaign Chicago Assumption Burney, Ind. Crete Garden City, Kan. Lewistown Urbana Garden City, Kan. Urbana Decalur Mattoon
Meredith, Ina Valeria Merrill, Thompson Arlene Mershimer, James Dwight Messerve, Theodore Decatur Metz, Carl Altgeld Metzger, LeRoy Paul Metzler, Arthur Maurice Metzler, Curtis Vernon Meyer, Carl Theodore Meyer, George, Jr. Meyer, George, Jr. Meyer, George William Meyer, Orval Conrad Meyers, Paul Lillard Michael, Ethel Otille Sophia Michael, Wilbur Harold Middleton, Walter Stanley Miers, Roy Hamilton Miessler, Erich Carl Miles, Eunice Miles, Luther Fiske Miles, May Miles, Ruth Columbia	SLA BLA Md (SS) S CE BLA BLA ME A A sp ME Agr Mus ME S S Agr sp Agr Agr Agr Agr SS Agr SS SS	99 27 95 36 31 30 90 21 81 107 52 23 60½ 5	St. David Perry Beardstown Chicago Robinson Tolono Cairo Champaign Strasburg Davenport, Ia. Vincennes, Ind. Indianapolis, Ind. Champaign Chicago Assumption Burney, Ind. Crete Garden City, Kan. Lewistown Urbana Garden City, Kan. Urbana Garden City, Kan. Decalur

Miller, Chester B, A.B., 1907	SS		Champaign
Miller, Clayton Allen Miller, Clyde Albert	SS EE	83	Tiffin, Ohio
Miller Clude Albert	EE	25\$	Sunbury, Pa.
Miller, Clyde Albert		238	
Miller, Clyde Lindley Miller, Daniel Edwin Miller, Elliott Strong Miller, Erwin Franklin	ME	_	Urbana
Miller, Daniel Edwin	ME	7	Quincy
Miller, Elliott Strong	BLA		Oak Park
Miller Franklin	A	16	Onaga, Kan.
Miller, Erwin Franklin	31	16	Onaya, Kan.
Miller, Eunice Blanche	Mus sp		Winamac, Ind. Gilman Gilman Oak Park Red Oak Alexis Urbana Girard, Ohio Atlanta Atlanta Springfield, Mo. Urbana Bloomington
Miller, Fred Raney	LA		Gilman
Miller, Jessie Fay Miller, Josh riarold Miller, Joseph Harrison Miller, Lew Stevenson	T A	102	Gilman
Miller, Jessie Lay	ET.	103	0.1.71
Miller, John Harold	EE	30	Oak Park
Miller, Joseph Harrison	CE	36	Red Oak
Miller Lew Stevenson	Ane ch	30	Alerie
Miller, Mabel Lucile, A.B., 1912 Miller, Marcus Gilbert	rigi sp	30	7116413
Miller, Mabel Lucile, A.B., 1912	22		Urbana
Miller, Marcus Gilbert	A	76	Girard, Ohio
Miller, Olive Fiedele	I A	66	Atlanta
Miller, Olive Fiedere	TICT 4	63	441- 4-
Miller, Ora Lucile Miller, Thomas Winfrey Miller, Welby West Miller, William Pitt, B.S., 1901 Millizen, Edna Varner	HSLA	32	Atlanta
Miller, Thomas Winfrey	EE	52	Springfield, Mo.
Miller Welhy West	RIA	9.8	Urbana
34'11 . 11'11' D'44 D.C. 1001	Agr	, ,	Diami
Miller, William Pitt, B.S., 1901	49 7		Bloomington
Millizen, Edna Varner	Mus	25	Champaign
Mills Charles R	2.2.	132	Ruckley
Mills, Charles R Mills, Fred Leon Mills, John Turner	LA	203	Bloomington Champaign Buckley Oak Park
Mills, Fred Leon	LA		Oak Park
Mills, John Turner	Agr		McNabb
Milne, Agnes Mahel	HSS	26	Lockbort
Miles Minnie Tankel	1100 (00)	53	I l b d
Milne, Agnes Mabel Milne, Minnie Isabel Minard, Barbara Winefred Minchin. Sidney Henry	noo (33)	32	Lockport
Minard, Barbara Winefred	LA	30	Blue Island
Minchin Sidney Henry	A	401	Chicago
Mines Heart France	DT A	.02	Watasha
Miner, Harry Eugene	DLA		waiseka
Miner, Henry	Agr	25 🛊	Waverly
Miner, Lester Ward	Agr	60	Shelbyville
Minor William	22	501	Ma Varnon
Miller, William	33	302	Mi. Pernon
Miner, Henry Miner, Lester Ward Miner, William Minnis, Lemuel Ernest	Agr		Chicago
Minor, Loyal Leonard	Aar	130	Oak Park McNabb Lockport Lockport Blue Island Chicago Watseka Waverly Shelbyville Mt. Vernon Chicago Aledo Chicago Peoria Havana Urbana
Mariok Harry Ruges	RI A	101	Chicago
Merick, Harry Rugee Misner, Francis de Sales	DE	1601	Chicago
Misner, Francis de Sales	EE	1003	Peoria
Mitchell, Elsie Louise	HSAgr	15	Havana
Mitchell, Florence Ferne	22	321	Hehana
Mitchell, Florence Terric	LA	542	TT 1
Mitchell, Grace Mitchell, Grover Ira Mitchell, Helen	LA		Urbana Cornell Urbana Chicago Champaign Chicago
Mitchell, Grover Ira	ME	79	Cornell
Mitchell Helen	T A	65	Ilrhana
Marketter, Merch	TICIA	401	Climan
Mitchell, Janet	H3LA	1001	Chicago
Mitchell, Joe Orlando	A(SS)	1092	Champaign
Mitchell, Lionel Earl	Md	31	Chicago
Mitchell, Janet Mitchell, Joe Orlando Mitchell, Lionel Earl Mitchell, Marguerite, A.B. (Wilming-			01111131
C. 11 \ 1010			
		22	11/21
ton Coll.) 1910	Lb	33	Wilmington, O.
Mitchell, Ruffin Edward	Lb MnE	33 75	
Mitchell, Ruffin Edward Mitchell William Leland	Lb MnE Md	75	Carbondale E St. Louis
Mitchell, Ruffin Edward Mitchell, William Leland	Lb MnE Md	75	Carbondale E St. Louis
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira	Lb MnE Md ME	75	Carbondale E St. Louis
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira Mize, Robert Charles	Lb MnE Md ME L	75	Carbondale E St. Louis
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira Mize, Robert Charles	Lb MnE Md ME L EE	75	Carbondale E St. Louis
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira Mize, Robert Charles	Lb MnE Md ME L EE	75	Carbondale E St. Louis
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira Mize, Robert Charles Mizoguchi, Gundayu Moh. Hsiang-Yueh	ME L EE Agr (SS)	126 86 69 110 1	Carbondale E. St. Louis Chicago Santa Ana, Calif. Saga, Japan Shanghai, China
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira Mize, Robert Charles Mizoguchi, Gundayu Moh. Hsiang-Yueh	ME L EE Agr (SS)	126 86 69 110 1	Carbondale E. St. Louis Chicago Santa Ana, Calif. Saga, Japan Shanghai, China
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira Mize, Robert Charles Mizoguchi, Gundayu Moh. Hsiang-Yueh	ME L EE Agr (SS)	126 86 69 110 1	Carbondale E. St. Louis Chicago Santa Ana, Calif. Saga, Japan Shanghai, China
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira Mize, Robert Charles Mizoguchi, Gundayu Moh. Hsiang-Yueh	ME L EE Agr (SS)	126 86 69 110 1	Carbondale E. St. Louis Chicago Santa Ana, Calif. Saga, Japan Shanghai, China
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira Mize, Robert Charles Mizoguchi, Gundayu Moh. Hsiang-Yueh	ME L EE Agr (SS)	126 86 69 110 1	Carbondale E. St. Louis Chicago Santa Ana, Calif. Saga, Japan Shanghai, China
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira Mize, Robert Charles Mizoguchi, Gundayu Moh. Hsiang-Yueh	ME L EE Agr (SS)	126 86 69 110 1	Carbondale E. St. Louis Chicago Santa Ana, Calif. Saga, Japan Shanghai, China
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira Mize, Robert Charles Mizoguchi, Gundayu Moh. Hsiang-Yueh	ME L EE Agr (SS)	126 86 69 110 1	Carbondale E. St. Louis Chicago Santa Ana, Calif. Saga, Japan Shanghai, China
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira Mize, Robert Charles Mizoguchi, Gundayu Moh. Hsiang-Yueh	ME L EE Agr (SS)	126 86 69 110 1	Carbondale E. St. Louis Chicago Santa Ana, Calif. Saga, Japan Shanghai, China
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira Mize, Robert Charles Mizoguchi, Gundayu Moh. Hsiang-Yueh	ME L EE Agr (SS)	126 86 69 110 1	Carbondale E. St. Louis Chicago Santa Ana, Calif. Saga, Japan Shanghai, China
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira Mize, Robert Charles Mizoguchi, Gundayu Moh. Hsiang-Yueh	ME L EE Agr (SS)	126 86 69 110 1	Carbondale E. St. Louis Chicago Santa Ana, Calif. Saga, Japan Shanghai, China
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira Mize, Robert Charles Mizoguchi, Gundayu Moh. Hsiang-Yueh	ME L EE Agr (SS)	126 86 69 110 1	Carbondale E. St. Louis Chicago Santa Ana, Calif. Saga, Japan Shanghai, China
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira Mize, Robert Charles Mizoguchi, Gundayu Moh. Hsiang-Yueh	ME L EE Agr (SS)	126 86 69 110 1	Carbondale E. St. Louis Chicago Santa Ana, Calif. Saga, Japan Shanghai, China
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira Mize, Robert Charles Mizoguchi, Gundayu Moh. Hsiang-Yueh	ME L EE Agr (SS)	126 86 69 110 1	Carbondale E. St. Louis Chicago Santa Ana, Calif. Saga, Japan Shanghai, China
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira Mize, Robert Charles Mizoguchi, Gundayu Moh. Hsiang-Yueh	ME L EE Agr (SS)	126 86 69 110 1	Carbondale E. St. Louis Chicago Santa Ana, Calif. Saga, Japan Shanghai, China
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira Mize, Robert Charles Mizoguchi, Gundayu Moh. Hsiang-Yueh	ME L EE Agr (SS)	126 86 69 110 1	Carbondale E. St. Louis Chicago Santa Ana, Calif. Saga, Japan Shanghai, China
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira Mize, Robert Charles Mizoguchi, Gundayu Moh. Hsiang-Yueh	ME L EE Agr (SS)	126 86 69 110 1	Carbondale E. St. Louis Chicago Santa Ana, Calif. Saga, Japan Shanghai, China
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira Mize, Robert Charles Mizoguchi, Gundayu Moh. Hsiang-Yueh	ME L EE Agr (SS)	126 86 69 110 1	Carbondale E. St. Louis Chicago Santa Ana, Calif. Saga, Japan Shanghai, China
Mitchell, Ruffin Edward Mitchell, William Leland Mix, Martin Ira Mize, Robert Charles Mizoguchi, Gundayu Moh, Hsiang-Yueh	ME L EE Agr (SS)	126 86 69 110 1	Carbondale E. St. Louis Chicago Santa Ana, Calif. Saga, Japan Shanghai, China

Moore, Stanley Jewell Moore, William Abner	SS	8	Cincinnati, O.
Moore, William Abner	LA		Urbans
Morehead, Herbert Leslie	\boldsymbol{A}		Cedar Rapids, Ia.
Moreland, Oscar Everette	Agr		Indianola
Morey, Laura Myla	Mus sp		Vandalia
Morgan, Charles Leonard	A	$118\frac{1}{2}$	Urbana
Morgan, Chester Arthur	MnE	34	Virden
Morgan, Edith Marian, A.B. (Univ.	212 102	31	, ,, den
Minnesota) 1909	Lb		St. Cloud, Minn.
	LA	66	Urbana
Morgan, Grace Busey			
Morgan, Harry Edward	L SS	56	Belleville
Morgan, John William		104 2-3	Clayton
Morgan, John William Morgan, Ralph Waldo Morgan, Rudolph Bennett Morgan, Thomas Sherman Morin, Oswell	ChE		Macomb
Morgan, Rudolph Bennett	22	7 1	Alpha
Morgan, Thomas Sherman	SS LA S		E. St. Louis
Morin, Oswell	S		Danville
Morray, Kenneth Ralph	Agr sp		Vienna
Morray, Kenneth Ralph Morrell, Ralph Leonard	Agr sp CE	56	Chicago
Morris, Alice Elvira	S (SS)	$110\frac{1}{2}$	Viola
Morris, Arthur Marvin	L	58	Oskaloosa, Ia.
Morris, Harold Bayley	Agr sp		Tonica
Morris, Leland Albert	L	23	Cartersville, S. C.
Morris Poy Edward	ĒΕ	36	Dwight
Morris, Roy Edward Morris, Vernon Leslie	AE	36	Congress Park
Morris, Vernon Lesne	Š		
Morrison, Donald Kenneth		54	Champaign
Morrison, Helen Sinclair	HSAgr	371	Joliet
Morrison, William Raymond Morrissey, Edward Henry	L .	54	Waterloo
Morrissey, Edward Henry	LA (SS)	54 1	Champaign
Morrissey, John Johnson Morrissey, Matthew Joseph, Jr.	Agr sp		Princeville
Morrissey, Matthew Joseph, Jr.	MnE	54	Chicago
Morrow, Arnold Vivian	ME		White Hall
Morse, Jessie	LA	65	Urbana
Morton, Henry Augustine	Agr		Canton
Moser, Olga Fern	Mus	110	Sigel
Moser, Olga Fern Moses, Robert Louis	Agr		Chicago
Mosher Tames Barnes	Agr		Prophetstown
Mosher, James Barnes Mosier, Leota Irene	HSLA		Urbana
Moss, Gladys Ione	HSLA	30	Chicago
Mostellan İlamını Cana			
Mostollar, Harvey Gove	Agr	25	Bloomington
Mottern, Halbert Nicholas Mottern, Layton Robert	A	33	Russellville, Ind.
Mottern, Layton Robert	BLA		Russellville, Ind.
Mottier, Julia Louise Mouch, William George	HSLA		Gibson City
Mouch, William George	CerE	23	Milford
Moulton, Henry Harper	S S LA	24 1	Glen Ellyn
Moulton, Wesley Hillman	S	12	Glen Ellyn
Moulton, Henry Harper Moulton, Wesley Hillman Mounts, Maryon Evelyn	LA	103	Carlinville
Mounts, Will Walter	ME	18	Carlinville
Mourning, Paul Wetzel Moutray, Mary Elizabeth Moutray, Madeleine	LA sp	22	Rushville
Moutray, Mary Elizabeth	Mus	35	Urbana
Moutray, Madeleine	LA	31	Urbana
Muckelroy, Renzo Muckelroy, Renzo Mueller, Harrie Stevens Mueller, Harry Louis Mueller, Herny Fred Mueller, Herbert Zoller Mulac, Louis Edward Mulforer, Corl Weeler	SS	321	Carbondale
Mueller Harrie Stevens	Agr	721	Wichita, Ken.
Mueller Harry Louis	Ch.	2	Highland
Mueller Henry Ered	BLA		St. Louis, Mo.
Marollon Horbort Zollon	EE		Quincy
Mules Taris Edmand	ME		
Mulac, Louis Edward	L	0.4	Chicago
		81	Chicago
Mullen, Clarence Clement	EE		Savanna
Mullens, Edward Richard	AE		Champaign
Mulvaney, Charles Stewart Munroe, Courtland Leroy	CE	811	Chicago
Munroe, Courtland Leroy	ChE	150	River Forest
Murdock, James Oliver Murdock, Paul Willard	LA		San Antonio, Tex.
Murdock, Paul Willard	\boldsymbol{A}	35	San Antonio, Tex.
Murduck, Elizabeth Adams	Mus	21	Champaig n
Murduck, Elizabeth Adams Murphy, Everett Franklin	Agr		Marshall
Murphy, Howard Dawson	Agr		Chicago
	•		-

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Murphy, Joseph Ivan	S	64	Urbana, Ohio
Murphy, Kendall Tuttle	CE	1054	Sterling
Murphy Lea Thomas	Age	2002	Sulling
Muiphy, Leo Inomas	2191	~ 4	Sumon
Murphy, Mary Agnes	NI 165	14	Sullivan
Murr, Milton	CE	75	Chicago
Murray Forrest Hamilton	9	741	Maron
Musical Transition	DT 4	172	Clina
Murray, Oscar James	BLA		Cnicago
Myers, Arthur Leslie	ME(SS)	108	Harvev
Myere Charles Everett	(22) 2	1051	Huntington W Va
Myers, Charles Everett	3 (33)	1032	TT
Myers, Jacob William, A.B., 1911	L.	43	Harrisburg
Myers, Lena Josephine	LA	115	Urbana
Myers Nina Claire	T A	32	Ilehana
Myers, Ivilla Claire	7.4	32	36 6 11
Myers, Odessa Madge	LA	71	Manspeld
Myers, Rachel Flossie	S	374	Huntington, W. Va.
Myers Walde Ray	RI A	• • •	Manshald
Adycis, Waldo Ray	DL21		Thunspers.
Nagel, Marcella Elizabeth Adalaide	HSAgr	04	Terre Haute, Ind.
Nakada, Kyoichi	EE sb		Okavamaken, Japan
Nakayama Maki	EE '		Kachi Tahan
Manayama, MUKI	FF		nochi, Japan
Nance, Wiley Finney	EE		Urbana
Naprstek, Frank Joseph	AE	101	Chicago
Nother Muse Occar	4	120	Page Torus
Nathan, Myer Oscar	261	130	Doone, Town
Nay, Ernest Omar	Md		Marshall
Nebel Clarence Arthur	Aar	341	Tirbana
Nobel Dore Murtle	T 4 (CC)	00	Unhana
Nebel, Dora Myrtle	LA (33)	90	Orbana
Nebel, Merle Louis	MnE	111	Urbana
Needham, Minnie Lucile	HSLA	30	Lirbana
Vacatas Halan Mantasmann	HC Age	44	Chiana
Needler, Helen Montgomery	пэлуг	04	Cnicago
Neely, Bertha	LA	26	Marion
Neely, John Lynde	Aar	1101	Sequard
Noill Alma Tannia	C.	-002	Chilliantha
Neill, Allia Jessie	3	00	Chimcoine
Nelson, Adorph Lincoln	ME	12	Galesburg
Nelson, Anna M	.5.5		Knarnille
Valore Corl Fordinged	3/14		Dankland
Nelson, Call Ferdinand	1/10		Rockjora
Nelson, Carl Ray	ME(SS)	71	Gothenburg, Sweden
Nelson, Clarence Onincy	AE		Albia Lozea
Volcen Deien	ncc		Canton
Nelson, Daisy	1133		Canton
Nelson, Elmer George	Md		Menominee, Mich.
Nelson Leon Wilfred	Aar	01	Knorzille
Malaam Milton N	7 1	22	Chicago
Nelson, Militon A	LA	22	Cnicago
Nelson, Myrtle Pauline	HSLA		Moline
Nelson Peter Swan	MF	01	DeKalh
Malaan Dalah Assessment	CLE	40	Chiana
Neison, Kaiph Augustus	UnE	49	Chicago
Nelson, Roslyn Bertha	LA	23	Urbana
Nelson Walter Stephen	FF	33	Chicago
Mashita Harman Dawless	100	20	Man Dielmand Ind
Nesbitt, Herman Dayless	ayr	20	New Richmona, Ina.
Neslage, Oliver John	ME		St. Louis, Mo.
Netcott, Roland Earl	AE		Independence. Ia.
Nouhalfon Mathina	1E	501	Consul Island Make
Neunanen, Matmas	7.6	203	Grana Islana, Neor.
Neuling, Harry John	LA (SS)	29	Ellis Grove
Neville, Florence Edith	T 1	20	
Morriso Anthun Commons			Kervanee
	LA (CC)	116	Kewanee
3.0	LA (SS)	116	Kewanee Champaign
New, Tsunyoong	LA (SS) Agr (SS)	116 52	Kewanee Champaign Ningpo, China
New, Tsunyoong	LA (SS) Agr (SS) HSLA	116 52 68	Kewanee Champaign Ningpo, China Urbana
New, Tsunyoong Newburn, Naomi Olive	LA (SS) Agr (SS) HSLA	116 52 68	Kewanee Champaign Ningpo, China Urbana
New, Tsunyoong Newburn, Naomi Olive Newcomb, John Elijah	LA (SS) Agr (SS) HSLA SS	116 52 68 11	Kewanee Champaign Ningpo, China Urbana Gibson City
New, Tsunyoong Newburn, Naomi Olive Newcomb, John Elijah Newell, George Arthur, Jr.	LA (SS) Agr (SS) HSLA SS BLA	116 52 68 11 57	Kewanee Champaign Ningpo, China Urbana Gibson City Medina, N. Y.
New, Tsunyoong Newburn, Naomi Olive Newcomb. John Elijah Newell, George Arthur, Jr. Newell, Moses Elmer	LA (SS) Agr (SS) HSLA SS BLA SS	116 52 68 11 57	Kewanee Champaign Ningpo, China Urbana Gibson City Medina, N. Y. Hersman
New, Tsunyoong Newburn, Naomi Olive Newcomb. John Elijah Newell, George Arthur, Jr. Newell, Moses Elmer	LA (SS) Agr (SS) HSLA SS BLA SS	116 52 68 11 57	Kewanee Champaign Ningpo, China Urbana Gibson City Medina, N. Y. Hersman
New, Tsunyoong Newburn, Naomi Olive Newcomb. John Elijah Newell, George Arthur, Jr. Newell, Moses Elmer Newenham, Raymond	LA (SS) Agr (SS) HSLA SS BLA SS L	116 52 68 11 57	Kewanee Champaign Ningpo, China Urbana Gibson City Medina, N. Y. Hersman Girard
New, Tsunyoong Newburn, Naomi Olive Newcomb. John Elijah Newell, George Arthur, Jr. Newell, Moses Elmer Newenham, Raymond Newkirk, Madge Wilmot	LA (SS) Agr (SS) HSLA SS BLA SS L HSLA	116 52 68 11 57	Kewanee Champaign Ningpo, China Urbana Gibson City Medina, N. Y. Hersman Girard Chrisman
New, Tsunyoong Newburn, Naomi Olive Newcomb. John Elijah Newell, George Arthur, Jr. Newell, Moses Elmer Newenham, Raymond Newkirk, Madge Wilmot Newman Fanny	LA (SS) Agr (SS) HSLA SS BLA SS L HSLA	29 116 52 68 11 57 9	Kewanee Champaign Ningpo, China Urbana Gibson City Medina, N. Y. Hersman Girard Chrisman Indianabalie Ind
New, Tsunyoong Newburn, Naomi Olive Newcomb. John Elijah Newell, George Arthur, Jr. Newell, Moses Elmer Newenham, Raymond Newkirk, Madge Wilmot Newman, Fanny	LA (SS) Agr (SS) HSLA SS BLA SS L HSLA LA	29 116 52 68 11 57 9	Kewanee Champaign Ningpo, China Urbana Gibson City Medina, N. Y. Hersman Girard Chrisman Indianapolis, Ind.
New, Tsunyong Newburn, Naomi Olive Newcomb. John Elijah Newell, George Arthur, Jr. Newell, Moses Elmer Newenham, Raymond Newkirk, Madge Wilmot Newman, Fanny Newman, Fred Allen	LA (SS) Agr (SS) HSLA SS BLA SS L HSLA LA Agr sp	116 52 68 11 57 9	Kewanee Champaign Ningpo, China Urbana Gibson City Medina, N. Y. Hersman Girard Chrisman Indianapolis, Ind. Wayne City
New, Tsunyoong Newburn, Naomi Olive Newcomb. John Elijah Newell, George Arthur, Jr. Newell, Moses Elmer Newenham, Raymond Newkirk, Madge Wilmot Newman, Fanny Newman, Fred Allen Newman, Margaret Jane	LA (SS) Agr (SS) HSLA SS BLA SS L HSLA LA Agr sp SS	29 116 52 68 11 57 9	Kewanee Champaign Ningpo, China Urbana Gibson City Medina, N. Y. Hersman Girard Chrisman Indianapolis, Ind. Wayne City Charleston
New, Tsunyoong Newburn, Naomi Olive Newcomb. John Elijah Newell, George Arthur, Jr. Newell, Moses Elmer Newenham, Raymond Newkirk, Madge Wilmot Newman, Fanny Newman, Fred Allen Newman, Margaret Jane Newman, Leonard Victor	LA (SS) Agr (SS) HSLA SS BLA SS L HSLA LA Agr sp SS MnR	29 116 52 68 11 57 9	Kewanee Champaign Ningpo, China Urbana Gibson City Medina, N. Y. Hersman Cirard Chrisman Indianapolis, Ind. Wayne City Charleston
New, Tsunyoong Newburn, Naomi Olive Newcomb, John Elijah Newell, George Arthur, Jr. Newell, Moses Elmer Newenham, Raymond Newkirk, Madge Wilmot Newman, Fanny Newman, Fred Allen Newman, Margaret Jane Newton, Leonard Victor Nicholic Cecil Bishard	LA (SS) Agr (SS) HSLA SS BLA SS L HSLA LA Agr sp SS MnE	29 116 52 68 11 57 9	Kewanee Champaign Ningpo, China Urbana Gibson City Medina, N. Y. Hersman Girard Chrisman Indianapolis, Ind. Wayne City Charleston Chicago
New, Tsunyoong Newburn, Naomi Olive Newcomb. John Elijah Newell, George Arthur, Jr. Newell, Moses Elmer Newenham, Raymond Newkirk, Madge Wilmot Newman, Fanny Newman, Fred Allen Newman, Margaret Jane Newman, Leonard Victor Nicholls, Cecil Richard	LA (SS) Agr (SS) Agr (SS) HSLA SS BLA SS L HSLA LA Agr sp SS MnE Agr sp	29 116 52 68 11 57 9	Kewanee Champaign Ningpo, China Urbana Gibson City Medina, N. Y. Hersman Cirard Chrisman Indianapolis, Ind. Wayne City Charleston Chicago Stark
New, Tsunyoong Newburn, Naomi Olive Newcomb. John Elijah Newell, George Arthur, Jr. Newell, Moses Elmer Newenham, Raymond Newkirk, Madge Wilmot Newman, Fanny Newman, Fred Allen Newman, Margaret Jane Newmon, Leonard Victor Nicholls, Cecil Richard Nichols, Floris Wilson	LA (SS) Agor (SS) HSLA SS BLA SS L HSLA LA Agor sp SS MnE Agor sp BLA	29 116 52 68 11 57 9	Kewanee Champaign Ningpo, China Urbana Gibson City Medina, N. Y. Hersman Girard Chrisman Indianapolis, Ind. Wayne City Charleston Chicago Stark Wenona
New, Tsunyoong Newburn, Naomi Olive Newcomb. John Elijah Newell, George Arthur, Jr. Newell, Moses Elmer Newenham, Raymond Newkirk, Madge Wilmot Newman, Fanny Newman, Fred Allen Newman, Margaret Jane Newman, Margaret Jane Newton, Leonard Victor Nicholls, Cecil Richard Nichols, Floris Wilson Nichols, Herbert Sigourney	LA (SS) Agr (SS) HSLA SS BLA SS L HSLA LA Agr sp SS SS MnE Agr sp BLA Agr sp	29 116 52 68 11 57 9 93	Kewanee Champaign Ningpo, China Urbana Gibson City Medina, N. Y. Hersman Girard Chrisman Indianapolis, Ind. Wayne City Charleston Chicago Stark Wenona Dixon
Murphy, Joseph Ivan Murphy, Kendall Tuttle Murphy, Leo Thomas Murphy, Mary Agnes Murr, Milton Murray, Forrest Hamilton Murray, Oscar James Myers, Arthur Leslie Myers, Charles Everett Myers, Lena Josephine Myers, Nina Claire Myers, Nina Claire Myers, Neachel Flossie Myers, Nachel Flossie Myers, Rachel Flossie Myers, Waldo Ray Nagel, Marcella Elizabeth Adalaide Nakada, Kyoichi Nakayama, Moki Nance, Wiley Finney Naprstek, Frank Joseph Nathan, Myer Oscar Nay, Ernest Omar Nebel, Dora Myrtle Nebel, Dora Myrtle Nebel, Merle Louis Needham. Minnie Lucile Needham. Minnie Lucile Needly, John Lynde Neill, Alma Jessie Nelson, Adoiph Lincoln Nelson, Anna M Nelson, Carl Ferdinand Nelson, Carl Ray Nelson, Clarence Quincy Nelson, Daisy Nelson, Elmer George Nelson, Myrtle Pauline Nelson, Myrtle Pauline Nelson, Myrtle Pauline Nelson, Ralph Augustus Nelson, Roslyn Bertha Nelson, Ralph Augustus Nelson, Ralph Augustus Nelson, Roslyn Bertha Nelson, Ralph Augustus Nelson, Roslyn Bertha Nelson, Ralph Augustus Nelson, Ralph Augustus Nelson, Roslyn Bertha Nelson, Walter Stephen Nesbitt, Herman Bayless Neslage, Oliver John Netcott, Roland Earl Neuhalfen, Mathias Neuling, Harry John Netcott, Roland Earl Newhalfen, Mathias Neuling, Harry John Neville, Florence Edith Nevins. Arthur Seymour New, Tsunyoong Newburn, Naomi Olive Newcomb, John Elijah Newell, Moses Elmer Newenham, Raymond Newkirk, Madge Wilmot Newman, Fred Allen Newman, Fred Allen Newman, Frod Allen Newman, Frod Slichard Nichols, Floris Wilson Nichols, James Lawrence	LA (SS) Agr (SS) HSLA SS BLA SS L HSLA LA Agr sp SS MnE Agr sp BLA Agr sp	116 52 68 11 57 9	Kewanee Champaign Ningpo, China Urbara Gibson City Medina, N. Y. Hersman Girard Chrisman Indianapolis, Ind. Wayne City Charleston Chicago Stark Wenona Dixon

Nichols Ralph Illine	AE	112	Elgin
Nichols, Ralph Uline Nichols, Walter Lester	CE		
Nichols, Walter Lester	CE	36	St. Louis, Mo.
Nickelsen, John Minert	ME	741	Mediapolis, Ia.
Nickerson Avon Joshua	BLA	30	Champaign
Nickelsen, John Minert Nickerson, Avon Joshua Nicol, Charles Wheeler		30	
Nicol, Charles Wheeler	\boldsymbol{A}		W. Lafayette, Ind.
Nilsen, Peter Jacob	EE	26	Arindal, Norway
Nip, Fugar	ME		Chicago
Niver, Margaret	SS	60	Muscatine, Ia.
Niver, Margaret Niver, Roe	Agr	37	N. Fairfield, O.
Nixon, M L Nixon, Robert Henry, Jr.	Agr	• • • • • • • • • • • • • • • • • • • •	Newport, Ind.
Nimon, D. L. a. II.			Newport, Ind.
Nixon, Robert Henry, Jr.	Agr		Newport, Ind.
Nobis, Carl Ioseph	Agr sp		Amelia. ().
Noble Toseph Morgan	BLA	39	Wichita Kone
Nobic, Joseph Morgan		37	Wichita. Kuns.
Nobis, Carl Joseph Noble, Joseph Morgan Noe, George Noel, Claude Forrester	Agr sp		Wichita. Kans. Sharon, Wis.
Noel. Claude Forrester	LA	5	Lake Bluff
Nolan, Albert Joseph Nolte, John Elbert	LA	•	Harvard
Notali, Albert Joseph			
Noite, John Elbert	BLA	34	Pekin
Noon, James Arthur Noon, John Eliot	S (SS)	911	Everett, Mass.
Noon John Flict	LA		Everett, Mass.
Noon, John Enot		73	
Noonan, Will Joseph	ME	17	Decatur
Norbury, Frank Garm, A.B. (Albion Coll.) 1912			
Call 1 1012	SS	8	C+ C - 7.2
Con.) 1912	20	•	Springfield
Nordheim, Ethel Marie	LA		Anaheim, Calif.
Nordstedt Finar August	EE	3 3	Joliet
Martin Frad Christian Ta	CE		
Norma, Fred Christian, Jr.	CE CE	6	Chicago
Norris, Wesley Kayler	CE	37	Chicago
Norlin, Fred Christian, Jr. Norris, Wesley Kayler North, Clyde James North, Page Lane Noth, Edwin Francis	Agr	••	Winchester
North, Clyde James			
North, Page Lane	EE		Mattoon
Noth, Edwin Francis	\boldsymbol{A}	8 2	Davenport, Ia.
Nowlen, Gladys Louise	HSS		Morrison
M. 1. D. All			
Nowien, Proctor Albert	Agr	56 <u>₹</u>	Morrison
Nowlen, Proctor Albert Noxon, Elmer Warner	ME		St. Louis, Mo.
Nugent, Walter Allyn	CE		Brocton
North Course Civatain	Ch	0.77	
Nutt, George Sinclair Nye, Linn Jones		97	Kankakee
Nye, Linn Iones	Agr	20	Harristown
Oaks, Catherine Susan, A.B. (Will-	•		
iam Smith Coll.) 1912, B.L.S.,			
1912	Mus		Geneva, N. Y.
Oaks, Margaret Ray	HSS		Kirkwood
		112	
Oathout, Claude Leslie	Agr	113	Cissna Park
O'Brien, Raymond John	S	31	Ivesdale
O'Brien Walter Laurence	SS	8	Maple Park
O'Brien, Walter Lawrence O'Connor, Charles Andrew	70	0.4	D. V.11
O Connor, Charles Andrew	L_{-}	91	DeKalb
Odell, Arthur Allen	AE (SS)	32	Holton, Mich.
O'Donnell Hugh Francis	Agr	20 1	Chicago
O'Donnell, Hugh Francis O'Donnell, Louise Lauretta	TICA	202	
O Donnell, Louise Lauretta	HSAgr		Galesburg
O'Donnell, Thomas Edward	\boldsymbol{A}	152	Olncy
Oehmke, Martin Frederick Ogden, Philip Langworthy	L	56	Gifford
Orden Dhilin Languagh			
Ogden, Philip Langworthy	EE (SS)	110	Tiskilwa
Ogg, Robert Rennie	ME		Buffalo, N. Y .
Ogle, Arthur Hook	BLA (SS)	110	Belleville
Onla Charles Dahant	ME		
Ogle, Charles Robert Olds, Grover Edwin	ME	118	Bellevill e
Olds, Grover Edwin	Agr sp	10	Chicago
Olesen, Marie Georgine	LA	10	Chicago
Olin, Irene Balfour	LA	37	
Oill, frene Ballour			Evanston
Olsen, Anna Margaret	SS	25	Chicago
Olseng, Harry Christian	Agr	3.5	Chicago
Olseng, Harry Christian Olson, Agnes Mildred Olson, Robert Harold	HSLA	57	
Olson, Agues Mildred			Galesburg
Oison, Robert Harold	AE	32	Chicago
Olsson, Thomas Carl	Agr sp		Chicago
O'Meara James Joseph	CE	6	
O'Nail William	AF.	U	Chicago
O'Neill, William George	AE		Faribault, Minn.
O'Meara, James Joseph O'Neill, William George Orcutt, Arthur Henry	Agr	921	Arcola
Ordonez, Benito Rene, Jr.	ME (SS)		Saltillo, Mex.
Orland Front Adv		106 1	
Orland, Frank Addison	EE		Murphysboro
Ormsby, Lelia Mae	LA	56	Greenub
			•

Orr, Clarence Orr, Harold Vaughn	LA		Auburn
Orr, Harold Vaughn	EE	73	Covington, Ky.
Orr Mary Flizabeth	LA	67	Pekin
Orr, Mary Elizabeth Ort, Emma F	HSS	0,	Wahaa Nahr
Ort, Emma F			Wahoo, Nebr.
Osborne, Pauline Theodora Osborne, Reuel Osmena, Mariano y Uriarte	LA	48	Champaign
Oshorne, Reuel	LA		Wilmington
Oamona Mariana v Uriarta	\overline{CE}	105	Cebu, P. I.
Osmena, Mariano y Oriarte	C.E.		
Oswalt, Alonzo Benjamin	BLA	15	Anderson, Ind.
Ott, David Lee	ME		Prophetstown
Ottinger, Tracy Rollin Ottman, Harley Paris Otwell, Ralph B	LA		Delta, Ohio
Ottonger, Tracy Rollin		001	
Ottman, Harley Paris	Agr	$88\frac{1}{2}$	Chicago
Otwell, Ralph B	Agr	47 1	Carlinville
Ou, Hua Ching, A.B., 1906, B.S., 1911, M.S., 1912 Ousley, Harold Paul	-	-	
A D 1006 D C 1011 M C 1012	SS		Canton, China
A.D., 1900, D.S., 1911, M.S., 1912	33		
Ousley, Harold Paul	BLA	62	Paris
Overmeier, Emmons	ME	110	Mt. Auburn
Owen Charles Norton	ME		Chicago
Owen, Charles Norton			
Owen, Charles Norton Owen, Harry Lea	AE		Plano
Owens, Cassius Marcellus Owens, Raymond Williams	LA	46	Louisville, Ky.
Owens Raymond Williams	EE	74	Morris
O-1 T T	ME	,,	
Oyler, James Loyd			Taylorville
Pack, Margaret	LA	104	River Forest
Oyler, James Loyd Pack, Margaret Pagin, John Beitner Paine, Olive Allen Painkinsky, David	ME	21	LaGrange
Pains Olive Allen	c -	68	N. Woodstock, Conn.
raine, Onve Anen	S Ch	00	
Painkinsky, David	Ch		Salem
Palmer, Eckels	Agr	71	Princeton
Palmer Gerald Lewis	Ch		Chicago
Daliner, Gerald Lewis	Cn		Chicago
Palmer, Gerald Lewis Palmer, James Asbury, A.B., A.M. (Shurtleff Coll.) 1897, 1901			
(Shurtleff Coll.) 1897, 1901	SS		Clinton, Ky.
Palmer Julius Clark	EE	71	Augusta
Dalman William Vinn		1101	
Palmer, Julius Clark Palmer, William King Panhoe, Henry Aki Panhorst, Frederick William	Agr	$110\frac{1}{2}$	Berwyn
Panhoe, Henry Akt	CE	50 ·	Kamuela, Hawaii
Panhorst, Frederick William	CE	36	Urbana
Pankow, Charles John	\overline{A}	110	Elgin
Dankow, Charles John	T 4 (CC)	110	
Pape, Leroy Frendenberg Pape, William Paul	LA (SS)	49	Chicago
Pape, William Paul	Agr sp		Kirkwood
Parent Fugene Joseph	LA	16	Menominee, Mich.
Parish William Laws			Greenfield
ransh, william Love	AE		
Park, George William	S		Murphysboro
Parent, Eugene Joseph Parish, William Love Park, George William Park, John Wallace	A	76	Chicago
Parker, Cora, A.B. (Kansas State Norm. Sch.) 1912 Parker, Helen Lucie			
Mainer, Cola, M.D. (Mansus State	T 1		Embania Vana
Norm. Sch.) 1912	Lb		Emporia, Kans.
Parker, Helen Lucie	LA	139	Champaign
Parker, Horatio Newton	SS	5	Champaign
Parker Lamia Alvin	S	32	Kissimmee, Fla.
Parker, Lannis Aivin	2		
Parker, Horatio Newton Parker, Lannis Alvin Parker, Raymond Webb Parker, Warren Kender	EE	36	Champaign
Parker, Warren Kender	Agr	341	Arlington Heights
Parkhurst, Clyde Emery	ME		Waterloo, Ia.
Danling Frank Handanan			
rarkins, Earle rienderson	Agr	63	Chicago
Parkins, Earle Henderson Parkins, George Raymond	Agr		Chicago
Parkinson, Harry Glenn	Agr	$114\frac{1}{2}$	Dunn Station, Pa.
Parkinson, Kenneth Warren	Agr		Maxwell
Danie Carre			
Parks, Edwin George	Agr		Astoria
Parks, Estelle	HSLA sp		Astoria
Parks Ralph Milton	Mus	51	Urbana
Parks, Wilms Con		30	Cooperstown
Tarks, Willia Gay	LA	30	
Parks, Edwin George Parks, Estelle Parks, Ralph Milton Parks, Wilma Gay Parr, Harold Lucien	S		Urbana
Parsons, Robert Percival	Md (SS)	37	Chicago
Partridge, Mazie Edna	SS	5	Chicago
Partridge, Mazie Edna Partridge, Newton Lyman Paschal, Paul Milton	4	0.51	
railinge, Newton Lyman	Agr	951	Chicago
Paschal, Paul Milton	BLA		St. Charles
Pasewalk, Lloyd Herman	CE	101	Evanston
Pasewalk, Lloyd Herman Patten, Norman Bond, Jr.	AE	46	
Dettern, Claster D.		40	Minneapolis, Minn.
ratterson, Charles Koy	L _.		Sullivan
Patterson, Charles Roy Patterson, Joseph Julian	\boldsymbol{A}		Danvill e
Patton, Charles Arthur	Agr sp		St. Jacob
,	g · op		

Patton, Elsie	LA	120	Urbana
Pauli, Adolph Frederick	LA		Peoria
Paulsen, George Frederick	BLA		Marinette, Wis.
Payne, Richard Fuller	S S CE	25	Omaha, Nebr.
Payne, Veda Louise	S	90	Chicago
Payne, Richard Fuller Payne, Veda Louise Peadro, Earl D	CE	102	Sullivan
Pearson, Harriet Angeline, A.B.			4.1
(Nebraska Wesleyan Univ.) 1907	Lb		Adams, Nebr.
Pearson, Paul Leo Pearson, William Henry	Agr	103	N. Crystal Lake
Pearson, William Henry	BLA	28 3	Lena Ottawa
Peck, Joseph Henry Peck, Roy Lee Peel, Elizabeth Clampett	Agr sp EE	202	Oak Park
Peck, Roy Lee	LA sp		Springfield
Peel, Elizabeth Clampett	Ch Sp	68	Shawneetown
Peeples, William McCord Peirce, Earl Carlton	ME	59	Chicago
Petrce, Earl Cariton	LA	39	Urbana
Pell, Flossie Marie	ME	81	Chicago
Pengilly, Henry Eugene	EE	108	Morris
Penn, John George Pennebaker, Charles Thomas	ME	38	Columbus, Ky.
Pennepaker, Charles Thomas	Mus	50	Chicago
Penny, Mildred Haynes	Mus		Champaign
Percival, Stella Rebecca	BLA	100	Seneca, Kans.
Peret, Cecil Hubert	SS	9	Renssalaer, Ind.
Parling Paul Venneth	Agr sp	33	Paris
Perkins, Ethel Comfort Perkins, Paul Kenneth Perring, Floyd John Perrott, Richard H	Md	26	Champaign
Perring, Floyd John	SS	20	Arthur
Perrott, Richard II	Agr	$9\frac{1}{2}$	
Perry, George Sanford Perry, Judson Maurice Perry, Margaret Campbell	Agr sp	/ 2	Lindenwood
Porry Margaret Campbell	HSS	20	Urbana
Dogge Poloh Crover	MnE	35	Urbana
Perry, Ralph Grover	HSLA	80	Sheffield
Pervier, Carrie May	CE	107	Park Ridge
Petersen, Herbert Christian, Peterson, Harold	CE	106	Chicago
Peterson, Hilding Cunard Regnault Peterson, Lola Maude Peterson, Ralph Gerald Peterson, William Chandler	ME	85	Chicago
Peterson, Inding Cunard Regnaute	I.A	102	Grand Forks, N. D.
Peterson Palph Gerald	LA CE	117	Chicago
Peterson William Chandler	A		N. Crystal Lake
Petroff, Racho Poppove	ĒΕ		Musina, Bulgaria
Peyrand Albert Paul	\overline{A}	32	Chicago
Peyraud, Albert Paul Pfeffer, Harold Sylvester Pfeiffer, Josef Salisbury	A	$101\frac{1}{2}$	
Pfeiffer Josef Salishury	BLA		Peoria
Pfrangle, Charles Perry	Cls	24	Aurora
Phelps, John Carne	ME	75	Oak Park
Philbrook, Alma Faye	HSS	25	Rock Island
Phillips, Jay Hamilton	Md	52	Chicago
Phillips, Jay Hamilton Phillips, Paul Blair	S		Metropolis
Phoenix, Maida Jane Pierson, Walter Raymond	HSLA		White Bear, Minn.
Pierson, Walter Raymond	LA		Princeton
Pike, George Hyde	BLA	31	Silvi s
Pihlgard, Eric Frederick	\boldsymbol{A}	3 1/2	Chicago
Pihlgard, Éric Frederick Pinault, Louis Clovis	\boldsymbol{A}	$58\frac{1}{2}$	St. Joseph, Minn.
Ping, Clarence Edgar	Agr sp		Auburn
Pinkley, James Pierpont	AE		Gibson City
Pinkley, James Pierpont Pinkney, Fred Theodore	ChE	38	Chicago
Piper, Harry Bruce	Agr (SS)	90½	Sumner
Piper, Harry Bruce Piper, William Ambrose	CerE	35	Sycamore
Pitsenbarger, Ethel Gertrude Pitts, John Joseph, Jr. Plack, Theodore	LA		Champaign
Pitts, John Joseph, Jr.	LA	69	Bloomington
Plack, Theodore	CE	73	Urbana
Planck, Catherine Melvina	HSAgr	66	Chicago
Platofsky, Edward Charles	Ch	, <u>1</u>	Chicago
Platt Casper	LA	71	Danville
Pletcher, Delma Coe	HSLA	003	Rochester, Ind.
Pletcher, Delma Coe Pletcher, Lyle Jay Pletcher, Opha Belle	ŝ.	991	Rochester, Ind.
Pletcher, Opha Belle	Lb	153₹	Rochester, Ind.
Plumb, John Curtis	Agr	2	Chicago

Pogue, Harold Austin Pogue, Stanley Landon Pollemus, Joseph Burton Polke, Wesley Williams Pollard, Letia Jean Pollard, Lottie Emily Pollock, Charles William Pollock, James, Jr. Ponder, Wilbur Homer Pool, Ernest Howard Pope, Carec Castello Pope, Grace Castello Porter, Charley Lyman Porter, Flora May Porter, Flora May Porter, Flora May Porter, Flora May Porter, Webster K Porterfied, Willard Blaine Portuondo y Miyares, Antonio Postel, Frederick William Poston, Floyd Emerson Powell, Bernice Powell, Stanley Noyce Powell, Stanley Noyce Power, Paul Waring Powers, Fred Richmond Powers, Fred Richmond Powers, Leroy Tallman Powers, Leroy Tallman Powers, Leroy Tallman Powers, Leroy Tallman Porter, Charles Edward, Jr. Prabman, Hazel Powers, Braul Rudolph Arctander Price, Charles Bradlaw Presson, Harry Bristol Presson, Harry Bristol Presson, Harry Bristol Presson, Harry Bristol Presson, Lola Iris Presson, Alvin Fred Price, Charles Bradlaw Price, Earl Franklin Price, Harry Brusha Price, John McCrea Price, Harry Brusha Price, Charles Bradlaw Primm, Philip Timon Presson, Lola Iris Presson, Lola Iris Presson, Charles Philip John Prince, William Jasper Prindivelle, Francis Company Prover, Leguen Francise Prutt, Joe Lida Prushey, Arthur William Pudney, William Sing-Chong Purdy, Raymond Harrison		DT 4		6 11:
Polhemus, Joseph Burton Polk, Wesley Williams Pollard, Leila Jean Pollard, Lottie Emily Pollock, Charles Williams Pollard, Lottie Emily Mus 6 Chicago Scaton Pollock, Charles William Pollock, Charles William Pollock, Charles William Pollock, Larry Robb Agr (SS) 100 Champaign Pollock, James, Jr. Agr 74½ Cambridge Pollock, James, Jr. Pollock, James, James, Jr. Pollock, James, James, Jr. Pollock, James, Jam	Pogue, Harold Austin	BLA		Sullivan
Polhemus, Joseph Burton Polk, Wesley Williams Pollard, Leila Jean Pollard, Lottie Emily Pollock, Charles Williams Pollard, Lottie Emily Mus 6 Chicago Scaton Pollock, Charles William Pollock, Charles William Pollock, Charles William Pollock, Larry Robb Agr (SS) 100 Champaign Pollock, James, Jr. Agr 74½ Cambridge Pollock, James, Jr. Pollock, James, James, Jr. Pollock, James, James, Jr. Pollock, James, Jam	Pogue, Paul Wright			Findley
Polhemus, Joseph Burton Polk, Wesley Williams Pollard, Leila Jean Pollard, Lottie Emily Pollock, Charles Williams Pollard, Lottie Emily Mus 6 Chicago Scaton Pollock, Charles William Pollock, Charles William Pollock, Charles William Pollock, Larry Robb Agr (SS) 100 Champaign Pollock, James, Jr. Agr 74½ Cambridge Pollock, James, Jr. Pollock, James, James, Jr. Pollock, James, James, Jr. Pollock, James, Jam	Pogue, Stanley Landon			Sullivan
Polk, Wesley Williams Pollard, Leila Jean Pollard, Lottie Emily Pollock, Charles William Pollock, Charles William Pollock, Harry Robb Pollock, James, Jr. Ponder, Wilbur Homer Pool, Ernest Howard Pope, Grace Castello Pope, Carea Castello Pope, Lawrence Arthur Porter, Charley Lyman Porter, Flora May Porter, Flora May Porter, Harry Gates Porter, Webster K Porterfield, Willard Blaine Portuondo y Miyares, Antonio Postel, Frederick William Poston, Floyd Emerson Powerl, I Razel Florence Powell, Bazel Forence Powell, Stanley Noyce Power, Fred Richmond Powers, I Orin Powers, I Fred Richmond Powers, I Fred Richmond Powers, Leroy Tallman Prashman, Charles Edward, Jr. Prahman, Hazel Prasil, Anton Presson, Lola Iris Pre	Polhemus, Joseph Burton	Agr	517	Peoria
Pollard, Leila Jean Pollard, Lottie Emily Pollock, Charles William Pollock, Charles William Pollock, Charles William Pollock, James, Jr. Ponder, Wilbur Homer Pool, Ernest Howard Pope, Grace Castello Pope, Grace Castello Pope, Grace Castello Porter, Charles Lyman Porter, Agnes Nellie Porter, Flora May Porter, Flora May Porter, Harry Gates Porter, Flora May Porter, Harry Gates Porter, Webster K Porterfield, Willard Blaine Portuondo y Miyares, Antonio Postel, Frederick William Poston, Floyd Emerson Powell, Frederick William Powell, Bernice Powell, Hazel Florence Powell, Stanley Noyce Power, Paul Waring Powers, J Orin Powers, J Orin Powers, J Orin Powers, Leroy Tallman Prahman, Charles Edward, Jr. Prahman, Charles Edward, Jr. Prahman, Charles Edward, Jr. Prahman, Hazel Prasil, Anton Presson, Lola Iris Pr	Polk Wesley Williams	ME	•	LaGrange
Pollock, Charles Wilham Pollock, Harry Robb Pollock, James, Jr. Ponder, Wilbur Homer Pool, Ernest Howard Pope, Grace Castello Pope, Carace Castello Pope, Lawrence Arthur Porter, Agnes Nellie Porter, Charles Lyman Porter, Charley Lyman Porter, Harry Gates Porter, Flora May Porter, Harry Gates Porter, Webster K Porterfield, Willard Blaine Portuondo y Miyares, Antonio Postel, Frederick William Poston, Floyd Emerson Powell, Hazel Florence Powell, Hazel Florence Powell, Hazel Florence Power, Paul Waring Powers, Leroy Tallman Prowers, Leroy Tallman Prahman, Charles Edward, Jr. Prahman, Charles Edward, Jr. Prahman, Charles Edward, Jr. Prasin, Anton Presson, Lola Iris Preston, Alvin Fred Price, Charles Bradlaw Price, Earl Franklin Price, Earl Franklin Price, Ford Smoot Prince, Ford Smoot Prince, Ford Smoot Prince, William Jasper Prindle, Merwin Logsdon Prince, Ford Smoot Prince, William John Prosser, Clara Louise Prout, Edwin Chester Pruett, Joe Lida Prusy, Raymond Harry Pull Charles Ind. Agr sp Salpa Champaign Chambaign Champaign Olttava Olney Olttava Olttava Olney Olttava Olter Olttava Olttav	Dalland I oils Toom	HS 400 (SS	1 61	
Pollock, Charles Wilham Pollock, Harry Robb Pollock, James, Jr. Ponder, Wilbur Homer Pool, Ernest Howard Pope, Grace Castello Pope, Carace Castello Pope, Lawrence Arthur Porter, Agnes Nellie Porter, Charles Lyman Porter, Charley Lyman Porter, Harry Gates Porter, Flora May Porter, Harry Gates Porter, Webster K Porterfield, Willard Blaine Portuondo y Miyares, Antonio Postel, Frederick William Poston, Floyd Emerson Powell, Hazel Florence Powell, Hazel Florence Powell, Hazel Florence Power, Paul Waring Powers, Leroy Tallman Prowers, Leroy Tallman Prahman, Charles Edward, Jr. Prahman, Charles Edward, Jr. Prahman, Charles Edward, Jr. Prasin, Anton Presson, Lola Iris Preston, Alvin Fred Price, Charles Bradlaw Price, Earl Franklin Price, Earl Franklin Price, Ford Smoot Prince, Ford Smoot Prince, Ford Smoot Prince, William Jasper Prindle, Merwin Logsdon Prince, Ford Smoot Prince, William John Prosser, Clara Louise Prout, Edwin Chester Pruett, Joe Lida Prusy, Raymond Harry Pull Charles Ind. Agr sp Salpa Champaign Chambaign Champaign Olttava Olney Olttava Olttava Olney Olttava Olter Olttava Olttav	Pollard, Lena Jean	1132191 (33)	, U1	Chicago
Pollock, Charles Wilham Pollock, Harry Robb Pollock, James, Jr. Ponder, Wilbur Homer Pool, Ernest Howard Pope, Grace Castello Pope, Carace Castello Pope, Lawrence Arthur Porter, Agnes Nellie Porter, Charles Lyman Porter, Charley Lyman Porter, Harry Gates Porter, Flora May Porter, Harry Gates Porter, Webster K Porterfield, Willard Blaine Portuondo y Miyares, Antonio Postel, Frederick William Poston, Floyd Emerson Powell, Hazel Florence Powell, Hazel Florence Powell, Hazel Florence Power, Paul Waring Powers, Leroy Tallman Prowers, Leroy Tallman Prahman, Charles Edward, Jr. Prahman, Charles Edward, Jr. Prahman, Charles Edward, Jr. Prasin, Anton Presson, Lola Iris Preston, Alvin Fred Price, Charles Bradlaw Price, Earl Franklin Price, Earl Franklin Price, Ford Smoot Prince, Ford Smoot Prince, Ford Smoot Prince, William Jasper Prindle, Merwin Logsdon Prince, Ford Smoot Prince, William John Prosser, Clara Louise Prout, Edwin Chester Pruett, Joe Lida Prusy, Raymond Harry Pull Charles Ind. Agr sp Salpa Champaign Chambaign Champaign Olttava Olney Olttava Olttava Olney Olttava Olter Olttava Olttav	Pollard, Lottle Emily	-11 W 2		Carte
Pollock, James, Jr. Ponder, Wilbur Homer Pool, Ernest Howard Pope, Grace Castello Pope, Lawrence Arthur Porter, Agnes Nellie Porter, Charley Lyman Porter, Charley Lyman Porter, Charley Lyman Porter, Harry Gates Porter, Harry Gates Porter, Webster K Porterfield, Willard Blaine Portuondo y Miyares, Antonio Postel, Frederick William Poston, Floyd Emerson Powell, Bernice Powell, Bernice Powell, Hazel Florence Powell, Hazel Florence Power, Paul Waring Powers, I Orin Powers, Leroy Tallman Prahman, Charles Edward, Jr. Prahman, Charles Edward, Jr. Prahman, Hazel Presson, Lola Iris Presson, Lola Iris Presson, Alvin Fred Price, Charles Bradlaw Price, Earl Franklin Price, Harry Brusha Price, Harry Brusha Price, Harry Brusha Price, Harry Brusha Price, Ford Smoot Prinne, William John Prosser, Clara Louise Prout, Edwin Chester Pruett, Eugene Francise Prunt, Joe Lida Prund, Raymond Harry Pull Charles Sing-Chong Purdy, Raymond Harry Pull Charles Sing-Chong Purdy, Raymond Harry Pull Charles Sinder Agr sp 22 Chambaign Othewa Moline Moline Wiban Moline Withoma Moline Otheau Mas Moline Otheau Mascoutah Mascoutah Mascoutah Afr sp Fairmount BEA Moline Moline Wiban Makopata Prices Belvidere Relvidere Belvidere Belvidere Relvidere Belvidere Belvidere Relvidere Belvidere Relvidere Relvidere Belvidere Relvidere Relvidere Relvidere Relvidere Belvidere Relvidere R	Pollock, Charles William	EE	131	Seaton
Pollock, James, Jr. Ponder, Wilbur Homer Pool, Ernest Howard Pope, Grace Castello Pope, Lawrence Arthur Porter, Agnes Nellie Porter, Charley Lyman Porter, Charley Lyman Porter, Charley Lyman Porter, Harry Gates Porter, Harry Gates Porter, Webster K Porterfield, Willard Blaine Portuondo y Miyares, Antonio Postel, Frederick William Poston, Floyd Emerson Powell, Bernice Powell, Bernice Powell, Hazel Florence Powell, Hazel Florence Power, Paul Waring Powers, I Orin Powers, Leroy Tallman Prahman, Charles Edward, Jr. Prahman, Charles Edward, Jr. Prahman, Hazel Presson, Lola Iris Presson, Lola Iris Presson, Alvin Fred Price, Charles Bradlaw Price, Earl Franklin Price, Harry Brusha Price, Harry Brusha Price, Harry Brusha Price, Harry Brusha Price, Ford Smoot Prinne, William John Prosser, Clara Louise Prout, Edwin Chester Pruett, Eugene Francise Prunt, Joe Lida Prund, Raymond Harry Pull Charles Sing-Chong Purdy, Raymond Harry Pull Charles Sing-Chong Purdy, Raymond Harry Pull Charles Sinder Agr sp 22 Chambaign Othewa Moline Moline Wiban Moline Withoma Moline Otheau Mas Moline Otheau Mascoutah Mascoutah Mascoutah Afr sp Fairmount BEA Moline Moline Wiban Makopata Prices Belvidere Relvidere Belvidere Belvidere Relvidere Belvidere Belvidere Relvidere Belvidere Relvidere Relvidere Belvidere Relvidere Relvidere Relvidere Relvidere Belvidere Relvidere R	Pollock, Harry Robb	Agr (SS)	100	
Forter, Agnes Neme Porter, Flora May Porter, Flora May Porter, Harry Gates Porter, Webster K Porterfield, Willard Blaine Portuondo y Miyares, Antonio Postel, Frederick William Poston, Floyd Emerson Powell, Bernice Powell, Bernice Powell, Hazel Florence Powell, Hazel Florence Powell, Stanley Noyce Power, Paul Waring Powers, I Orin Powers, I Orin Powers, Leroy Tallman Prahman, Charles Edward, Jr. Prahman, Hazel Prasil, Anton Presson, Harry Bristol Presson, Lola Iris Presson, Alvin Fred Price, Charles Bradlaw Price, Charles Bradlaw Price, Earl Franklin Price, Earl Franklin Price, Charles Bradlaw Price, John McCrea Price, Charles Bradlaw Price, John McCrea Price, William Jasper Prindiville, Francis Joseph Prindle, Merwin Logsdon Pritchard, Paul Herbert Prindiville, Francis Joseph Prindle, Merwin Logsdon Pritchard, Paul Herbert Prindiville, Francis Joseph Prout, Fed Joseph Prout, Fed Joseph Prouty, Edwin Chester Pruett, Eugene Francise Pruitt, Joe Lida Pung, William Sing-Chong Purdy, Raymond Harry Purl, Charles Gilbert Agr sb Mackinaw Urbona Garden Prairie Beltudere Belvidere Boantage Belvider Belvidere Belvidere Boantage Belvider Belvidere Belvidere Belvidere Belvidere Belvidere Boantage Belvider Belvidere Bo	Pollock, James, Jr.	Agr	$74\frac{1}{2}$	Cambridge
Forter, Agnes Neme Porter, Flora May Porter, Flora May Porter, Harry Gates Porter, Webster K Porterfield, Willard Blaine Portuondo y Miyares, Antonio Postel, Frederick William Poston, Floyd Emerson Powell, Bernice Powell, Bernice Powell, Hazel Florence Powell, Hazel Florence Powell, Stanley Noyce Power, Paul Waring Powers, I Orin Powers, I Orin Powers, Leroy Tallman Prahman, Charles Edward, Jr. Prahman, Hazel Prasil, Anton Presson, Harry Bristol Presson, Lola Iris Presson, Alvin Fred Price, Charles Bradlaw Price, Charles Bradlaw Price, Earl Franklin Price, Earl Franklin Price, Charles Bradlaw Price, John McCrea Price, Charles Bradlaw Price, John McCrea Price, William Jasper Prindiville, Francis Joseph Prindle, Merwin Logsdon Pritchard, Paul Herbert Prindiville, Francis Joseph Prindle, Merwin Logsdon Pritchard, Paul Herbert Prindiville, Francis Joseph Prout, Fed Joseph Prout, Fed Joseph Prouty, Edwin Chester Pruett, Eugene Francise Pruitt, Joe Lida Pung, William Sing-Chong Purdy, Raymond Harry Purl, Charles Gilbert Agr sb Mackinaw Urbona Garden Prairie Beltudere Belvidere Boantage Belvider Belvidere Belvidere Boantage Belvider Belvidere Belvidere Belvidere Belvidere Belvidere Boantage Belvider Belvidere Bo	Ponder, Wilhur Homer	BLA	116	Urbana
Forter, Agnes Neme Porter, Flora May Porter, Flora May Porter, Harry Gates Porter, Webster K Porterfield, Willard Blaine Portuondo y Miyares, Antonio Postel, Frederick William Poston, Floyd Emerson Powell, Bernice Powell, Bernice Powell, Hazel Florence Powell, Hazel Florence Powell, Stanley Noyce Power, Paul Waring Powers, I Orin Powers, I Orin Powers, Leroy Tallman Prahman, Charles Edward, Jr. Prahman, Hazel Prasil, Anton Presson, Harry Bristol Presson, Lola Iris Presson, Alvin Fred Price, Charles Bradlaw Price, Charles Bradlaw Price, Earl Franklin Price, Earl Franklin Price, Charles Bradlaw Price, John McCrea Price, Charles Bradlaw Price, John McCrea Price, William Jasper Prindiville, Francis Joseph Prindle, Merwin Logsdon Pritchard, Paul Herbert Prindiville, Francis Joseph Prindle, Merwin Logsdon Pritchard, Paul Herbert Prindiville, Francis Joseph Prout, Fed Joseph Prout, Fed Joseph Prouty, Edwin Chester Pruett, Eugene Francise Pruitt, Joe Lida Pung, William Sing-Chong Purdy, Raymond Harry Purl, Charles Gilbert Agr sb Mackinaw Urbona Garden Prairie Beltudere Belvidere Boantage Belvider Belvidere Belvidere Boantage Belvider Belvidere Belvidere Belvidere Belvidere Belvidere Boantage Belvider Belvidere Bo	Pool Freet Howard	T A		Ottonia
Forter, Agnes Neme Porter, Flora May Porter, Flora May Porter, Harry Gates Porter, Webster K Porterfield, Willard Blaine Portuondo y Miyares, Antonio Postel, Frederick William Poston, Floyd Emerson Powell, Bernice Powell, Bernice Powell, Hazel Florence Powell, Hazel Florence Powell, Stanley Noyce Power, Paul Waring Powers, I Orin Powers, I Orin Powers, Leroy Tallman Prahman, Charles Edward, Jr. Prahman, Hazel Prasil, Anton Presson, Harry Bristol Presson, Lola Iris Presson, Alvin Fred Price, Charles Bradlaw Price, Charles Bradlaw Price, Earl Franklin Price, Earl Franklin Price, Charles Bradlaw Price, John McCrea Price, Charles Bradlaw Price, John McCrea Price, William Jasper Prindiville, Francis Joseph Prindle, Merwin Logsdon Pritchard, Paul Herbert Prindiville, Francis Joseph Prindle, Merwin Logsdon Pritchard, Paul Herbert Prindiville, Francis Joseph Prout, Fed Joseph Prout, Fed Joseph Prouty, Edwin Chester Pruett, Eugene Francise Pruitt, Joe Lida Pung, William Sing-Chong Purdy, Raymond Harry Purl, Charles Gilbert Agr sb Mackinaw Urbona Garden Prairie Beltudere Belvidere Boantage Belvider Belvidere Belvidere Boantage Belvider Belvidere Belvidere Belvidere Belvidere Belvidere Boantage Belvider Belvidere Bo	Pose Case Costello	TA	22	Centralia
Forter, Agnes Neme Porter, Flora May Porter, Flora May Porter, Harry Gates Porter, Webster K Porterfield, Willard Blaine Portuondo y Miyares, Antonio Postel, Frederick William Poston, Floyd Emerson Powell, Bernice Powell, Bernice Powell, Hazel Florence Powell, Hazel Florence Powell, Stanley Noyce Power, Paul Waring Powers, I Orin Powers, I Orin Powers, Leroy Tallman Prahman, Charles Edward, Jr. Prahman, Hazel Prasil, Anton Presson, Harry Bristol Presson, Lola Iris Presson, Alvin Fred Price, Charles Bradlaw Price, Charles Bradlaw Price, Earl Franklin Price, Earl Franklin Price, Charles Bradlaw Price, John McCrea Price, Charles Bradlaw Price, John McCrea Price, William Jasper Prindiville, Francis Joseph Prindle, Merwin Logsdon Pritchard, Paul Herbert Prindiville, Francis Joseph Prindle, Merwin Logsdon Pritchard, Paul Herbert Prindiville, Francis Joseph Prout, Fed Joseph Prout, Fed Joseph Prouty, Edwin Chester Pruett, Eugene Francise Pruitt, Joe Lida Pung, William Sing-Chong Purdy, Raymond Harry Purl, Charles Gilbert Agr sb Mackinaw Urbona Garden Prairie Beltudere Belvidere Boantage Belvider Belvidere Belvidere Boantage Belvider Belvidere Belvidere Belvidere Belvidere Belvidere Boantage Belvider Belvidere Bo	Pope, Grace Castello	LA	33	36-12
Forter, Agnes Neme Porter, Flora May Porter, Flora May Porter, Harry Gates Porter, Webster K Porterfield, Willard Blaine Portuondo y Miyares, Antonio Postel, Frederick William Poston, Floyd Emerson Powell, Bernice Powell, Bernice Powell, Hazel Florence Powell, Hazel Florence Powell, Stanley Noyce Power, Paul Waring Powers, I Orin Powers, I Orin Powers, Leroy Tallman Prahman, Charles Edward, Jr. Prahman, Hazel Prasil, Anton Presson, Harry Bristol Presson, Lola Iris Presson, Alvin Fred Price, Charles Bradlaw Price, Charles Bradlaw Price, Earl Franklin Price, Earl Franklin Price, Charles Bradlaw Price, John McCrea Price, Charles Bradlaw Price, John McCrea Price, William Jasper Prindiville, Francis Joseph Prindle, Merwin Logsdon Pritchard, Paul Herbert Prindiville, Francis Joseph Prindle, Merwin Logsdon Pritchard, Paul Herbert Prindiville, Francis Joseph Prout, Fed Joseph Prout, Fed Joseph Prouty, Edwin Chester Pruett, Eugene Francise Pruitt, Joe Lida Pung, William Sing-Chong Purdy, Raymond Harry Purl, Charles Gilbert Agr sb Mackinaw Urbona Garden Prairie Beltudere Belvidere Boantage Belvider Belvidere Belvidere Boantage Belvider Belvidere Belvidere Belvidere Belvidere Belvidere Boantage Belvider Belvidere Bo	Pope, Lawrence Arthur	EE		
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Prindly Merwin Logsdon Pritchard, Paul Herbert Pritzlaff, Charles Philip John Proesel, William John Prout, Fred Joseph Prout, Fed Joseph Proutt, Eugene Francise Pruett, Eugene Francise Pruitt, Joe Lida Prussing, Arthur William Pudney, William Kent Pudney, William Kent Pudney, William Sing-Chong Purdy, Raymond Harry Purl Charles Gilbert Purl Charles Gilbert Agr 24 Belvidere CE (SS) 68 Chicago Chompaign Chicago Kinmundy Kinmundy Virbana Chicago Kinmundy Virbana Chicago Mus 23 Vincentes, Ind. Compaign Chicago Kinmundy Kinmundy Virbana Chicago Honolulu, Hawaii Vincentes, Ind. Carollton	Frimm, Famp Timon	A C		
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Prindly Merwin Logsdon Pritchard, Paul Herbert Pritzlaff, Charles Philip John Proesel, William John Prout, Fred Joseph Prout, Fed Joseph Proutt, Eugene Francise Pruett, Eugene Francise Pruitt, Joe Lida Prussing, Arthur William Pudney, William Kent Pudney, William Kent Pudney, William Sing-Chong Purdy, Raymond Harry Purl Charles Gilbert Purl Charles Gilbert Agr 24 Belvidere CE (SS) 68 Chicago Chompaign Chicago Kinmundy Kinmundy Virbana Chicago Kinmundy Virbana Chicago Mus 23 Vincentes, Ind. Compaign Chicago Kinmundy Kinmundy Virbana Chicago Honolulu, Hawaii Vincentes, Ind. Carollton	Prince, William Jasper	C/12		
Pruett, Eugene Francise Pruitt, Joe Lida Prussing, Arthur William Pudney, William Kent Pugh, Ada Roberta Pung, William Sing-Chong Purdy, Raymond Harry Purl, Charles Gilbert Agr Agr Mus ChE Chicago Chicago Montclair, N. J. SS 828 Champaign Honolulu, Hawaii Vicennes, Ind. Carrollton Carrollton	Prindiville, Francis Joseph	CE	135	
Pruett, Eugene Francise Pruitt, Joe Lida Prussing, Arthur William Pudney, William Kent Pugh, Ada Roberta Pung, William Sing-Chong Purdy, Raymond Harry Purl, Charles Gilbert Agr Agr Mus ChE Chicago Chicago Montclair, N. J. SS 828 Champaign Honolulu, Hawaii Vicennes, Ind. Carrollton Carrollton	Prindle, Merwin Logsdon	S	94	Chicago
Pruett, Eugene Francise Pruitt, Joe Lida Prussing, Arthur William Pudney, William Kent Pugh, Ada Roberta Pung, William Sing-Chong Purdy, Raymond Harry Purl, Charles Gilbert Agr Agr Mus ChE Chicago Chicago Montclair, N. J. SS 828 Champaign Honolulu, Hawaii Vicennes, Ind. Carrollton Carrollton	Pritchard Paul Herbert	Agr	24	Belvidere
Pruett, Eugene Francise Pruitt, Joe Lida Prussing, Arthur William Pudney, William Kent Pugh, Ada Roberta Pung, William Sing-Chong Purdy, Raymond Harry Purl, Charles Gilbert Agr Agr Mus ChE Chicago Chicago Montclair, N. J. SS 828 Champaign Honolulu, Hawaii Vicennes, Ind. Carrollton Carrollton	Deitaloff Charles Philip Tohn	CF (SS)		
Pruett, Eugene Francise Pruitt, Joe Lida Prussing, Arthur William Pudney, William Kent Pugh, Ada Roberta Pung, William Sing-Chong Purdy, Raymond Harry Purl, Charles Gilbert Agr Agr Mus ChE Chicago Chicago Montclair, N. J. SS 828 Champaign Honolulu, Hawaii Vicennes, Ind. Carrollton Carrollton	Pritzian, Charles I himp John	100 (33)		
Pruett, Eugene Francise Pruitt, Joe Lida Prussing, Arthur William Pudney, William Kent Pugh, Ada Roberta Pung, William Sing-Chong Purdy, Raymond Harry Purl, Charles Gilbert Agr Agr Mus ChE Chicago Chicago Montclair, N. J. SS 828 Champaign Honolulu, Hawaii Vicennes, Ind. Carrollton Carrollton	Proesel, William John	Agr sp	233	Champaign
Pruett, Eugene Francise Pruitt, Joe Lida Prussing, Arthur William Pudney, William Kent Pugh, Ada Roberta Pung, William Sing-Chong Purdy, Raymond Harry Purl, Charles Gilbert Agr Agr Mus ChE Chicago Chicago Montclair, N. J. SS 828 Champaign Honolulu, Hawaii Vicennes, Ind. Carrollton Carrollton	Prosser, Clara Louise	Mus sp		
Pruett, Eugene Francise Pruitt, Joe Lida Prussing, Arthur William Pudney, William Kent Pugh, Ada Roberta Pung, William Sing-Chong Purdy, Raymond Harry Purl, Charles Gilbert Agr Agr Mus ChE Chicago Chicago Montclair, N. J. SS 828 Champaign Honolulu, Hawaii Vicennes, Ind. Carrollton Carrollton	Prout, Fred Joseph			Topeka, Kans.
Pruett, Eugene Francise Pruitt, Joe Lida Prussing, Arthur William Pudney, William Kent Pugh, Ada Roberta Pung, William Sing-Chong Purdy, Raymond Harry Purl, Charles Gilbert Pursley, Emma Stine Pursley, Helen Nettie Pyron, John Elder Questel, Benjamin Harrison Agr Kimmundy Virbana Mus Collegor ChE Collegor Mds 502 Mus Collegor Chempaign Honolulu, Hawaii Agr sp Carrollton Carrollton Kansas City, Mo. St. Louis, Mo. Carmi	Prouty, Edwin Chester	CE	81	Chicago
Pruitt, Joe Lida Prussing, Arthur William Pudney, William Kent Pugh, Ada Roberta Pung, William Sing-Chong Purdy, Raymond Harry Purl, Charles Gilbert Pursley, Emma Stine Pursley, Helen Nettie Pyron, John Elder Questel, Benjamin Harrison Mus ChE Mus Che Mad 50½ Montclair, N. J. Champaign RCE (SS) 69 Honolulu, Hawaii Vincennes, Ind. Carrollton Carrollton Kansas City, Mo. St. Louis, Mo. Carmi	Privett Figene Francise	Agr		
Prussing, Arthur William Pudney, William Kent Pugh, Ada Roberta Pung, William Sing-Chong Purdy, Raymond Harry Purl, Charles Gilbert Pursley, Emma Stine Pursley, Helen Nettie Pyron, John Elder Questel, Benjamin Harrison Agr Sp Chicago Md 50½ Montclair, N. J. St. Chicago RCE (SS) 69 Honolulu, Hawaii Agr sp Carrollton Carrollton Kansas City, Mo. St. Louis, Mo. Carmi	Daviet Tag Lide	Mare	22	
Prussing, Arthur William Kent Pudney, William Kent Pugh, Ada Roberta Pung, William Sing-Chong Purdy, Raymond Harry Purl, Charles Gilbert Pursley, Emma Stine Pursley, Helen Nettie Pyron, John Elder Questel, Benjamin Harrison Ada 50½ Montclair, N. J. Champaign Montclair, N. J. Champaign Montclair, N. J. Champaign Montclair, N. J. Champaign Vincennes, Ind. Carrollton Kansas City, Mo. Kansas City, Mo. St. Louis, Mo. Carmi	Fruitt, Joe Liua	C1 F	23	
Fudney, William Kent Pugh, Ada Roberta Pung, William Sing-Chong Purdy, Raymond Harry Purl, Charles Gilbert Pursley, Emma Stine Pursley, Helen Nettie Pyron, John Elder Questel, Benjamin Harrison Md Md Md Md Md Md Md Md Md M	Prussing, Arthur William	UNE	* 41	Cincago
Pugh, Ada Roberta Pung, William Sing-Chong Purdy, Raymond Harry Purl, Charles Gilbert Pursley, Emma Stine Pursley, Helen Nettie Pyron, John Elder Questel, Benjamin Harrison SS 828 Champaign RCE (SS) 69 Honolulu, Hawaii Agr sp Carrollton Carrollton HSAgr 32 Kansas City, Mo. St. Louis, Mo. Carmi	Pudney, William Kent	Md	303	Montciair, N. J.
Pung, William Sing-Chong Purdy, Raymond Harry A 33 Vincennes, Ind. Purl, Charles Gilbert Agr sp Carrollton Pursley, Emma Stine LA 33 Kansas City, Mo. Pursley, Helen Nettie HSAgr 32 Kansas City, Mo. Pyron, John Elder ChE St. Louis, Mo. Questel, Benjamin Harrison Agr Carmi	Pugh, Ada Roberta	SS	82₹	Champaign
Purdy, Raymond Harry Purl, Charles Gilbert Pursley, Emma Stine Pursley, Helen Nettie Pyron, John Elder Questel, Benjamin Harrison Agr sp LA Agr sp LA Agr sp LA Agr sp Carrollton Carr	Pung. William Sing-Chong	RCE (SS)	69	Honolulu, Hawaii
Purl, Charles Gilbert Agr sp Carrollton Pursley, Emma Stine LA 33 Kansas City, Mo. Pursley, Helen Nettle HSAgr 32 Kansas City, Mo. Pyron, John Elder ChE St. Louis, Mo. Questel, Benjamin Harrison Agr Carmi	Purdy Raymond Harry	A	3.3	Vincennes Ind
Pursley, Emma Stine Pursley, Helen Nettie Pyron, John Elder Questel, Benjamin Harrison Agr Sp Carrotton Kansas City, Mo. Kansas City, Mo. Kansas City, Mo. Kansas City, Mo. ChE St. Louis, Mo. Carmi	Duel Charles Cilbert	Acre ab	55	Carrollton
Pursley, Emma Stine Pursley, Helen Nettle Pyron, John Elder Questel, Benjamin Harrison LA 53 Kansas City, Mo. Carmi Kansas City, Mo. Carmi	Puri, Charles Gilbert	Agr sp	2.2	Vanna City
Pursley, Helen Nettie Pyron, John Elder Questel, Benjamin Harrison HSAgr ChE ChE Agr St. Louis, Mo. Carmi	Pursley, Emma Stine			Lansas City, Mo.
Pyron, John Elder ChE St. Louis, Mo. Questel, Benjamin Harrison Agr Carmi	Pursley, Helen Nettie	HSAgr	32	Kansas City, Mo.
Questel, Benjamin Harrison Agr Carmi	Pyron, John Elder	ChE		St. Louis, Mo.
garant, Danjamin and and and and and and and and and an	Questel, Benjamin Harrison			
	&, wasjamin			

12			
Ouisis George Edward	AE	75	Tiskilwa
Quick, George Edward Quick, Harry Quinn, Bernice Mae Raab, Anita Emma	ME		Tiskilwa
Ouinn Bernice Mae	LA	89	LaFayette
Dook Anita Emma	LA	27	Belleville
Dealliffe Thomas Thomas	S	173	St. Joseph, Mo.
Dadanas Flada Plata	Mus sp		
Rada, Anna Emina Rackliffe, Thomas Thayer Radmore, Eleda Blake Rafferty, Clive Kleckner Rahn, Robert Charles	Agr	14 26½	Carrollton
Ranerty, Clive Kleckner		202	Chiange
Rahn, Robert Charles	Ş		Chicago
Raibourn, Claude Raithel, Arthur Christopher	LA	,	Waterloo
Raithel, Arthur Christopher	EE	6	Chicago
Rall, Eugene Robert Paul	CE	39	Chicago
Ralston, Stuart Albert Ramey, Frank Willard Ramey, Robert Henry Ramsey, Carrie Eva Ramsey, Leonidas Willing	EE	120	Caledonia
Ramey, Frank Willard	A(SS)	3 53 1	Champaign
Ramey, Robert Henry	Agr	53 1	Champaign
Ramsey, Carrie Eva	22	248	Danville
Ramsey, Leonidas Willing	Agr	58 1	Hazlehurst, Miss.
	LA		Hazlehurst, Mi ss.
Ramseyer, Ben Rand, Charles Classin	Agr		Urbana
Rand, Charles Claffin	Cer	105	Lombard
Randall, Thomas David	ME	41	Chicago
Randolph, Hallie Burnside	Agr .	601	Covington, Ind.
Randolph Oscar Alan, B.S.	3		,
(Missouri School of Mines) 1911	SS		Urbana
Pandalah Otto Coffeen Fitz	ĈĔ	110	Chicago
Randall, Thomas David Randall, Thomas David Randolph, Hallie Burnside Randolph, Oscar Alan, B.S. (Missouri School of Mines) 1911 Randolph, Otto Coffeen Fitz Rang, Carl King Randel Hugh, Waller	LA	68	Rockford
Dantin Hugh Waller	LA ME (SS) LA	5	Cincinnati, Ohio
Rankin, Hugh Walker	IL (33)	100	Havana
Ranson, Ethel Alice			
Rapp, Edwin Wallace	Md LA (SS) SS	24	Aurora
Rapp, John Holly	LA (33)	31	Fairfield
Rapp, Peter George			Fairfield
Rappaport, Benjamin Julius	AE	86	Chicago
Rappleye, Willard Cole	Md	18	Menominee, Mich.
Rang, Carl King Rankin, Hugh Walker Ranson, Ethel Alice Rapp, Edwin Wallace Rapp, John Holly Rapp, Peter George Rappaport, Benjamin Julius Rappleye, Willard Cole Ratcliff, Frank Damon Ratcliff, Glenn Rathbun, Acors Earl	ME	57	Olney
Ratcliff, Glenn	SS	71	Greenup
Rathbun, Acors Earl Rathbun, Acors Earl Rathfon, William Owen Rauch, Paul Vincent Raut, Alfred Ray, Bankin Chandre Ray, Bryne Lucas	S CerE A	135	Glen Ellyn
Rathfon, William Owen	CerE	35	Chicago
Rauch, Paul Vincent	\boldsymbol{A}	64	Wichita, Kan.
Raut. Alfred	Agr (SS)	43	Sedalia, Mo. Bengal, India
Ray, Bankin Chandre	EE		Bengal, India
Ray, Bryne Lucas	S	$\frac{109\frac{1}{2}}{32}$	Mason City, Ia.
Rayburn, Allan Barnes Rayhill, Charles Thomas Raymond, Reva Jane Reace, William Thomas Read, Martha McClelland	Agr	32	Bloomington
Raybill Charles Thomas	I.A		Belleville
Raymond Reva Jane	HSAgr	31	Evansville, Ind.
Reace William Thomas	EE	37	Marseilles
Read Martha McClelland	EE SS	2	Raton Rouge In
Pander Emma Grace	HSAgr	18	Centralia
Reader, Emma Grace Reagan, Maurice Real, John Jeremiah Reber, Edwin Perry	EE.		Canton
Pool John Joramich	BLA		Sterling
Dahan Edmin Donner	ME	3 7	Rockford
Dealist Charles Emant	LA	31	Evanston
Reckitt, Charles Ernest Rector, Theodore 1	Agr sp	50 ±	Smithfield
Rector, I neodore		87	Batavia
Redborg, Carl Eric	BLA	124	Chierra
Reddersen, Edward Ernest	RCE	124 1023	Chicago
Reddersen, Edward Ernest Redded, Alice Redded, Chester Otis RS 1911	LA	1022	Tolono
Reed, Chester Otis, B.S., 1911 Reed, Clara Mabel Reed, Erwin Ambrose Reed, Gratia Jewett Reese, Leal Wiley	SS		Rochester, N. Y.
Reed, Clara Mabel	LA	29	Champaign
Reed, Erwin Ambrose	CE	117	Chicago
Reed, Gratia Jewett	HSLA	36	Warsaw
Reese, Leal Wiley	LA		Urbana
		1074	Urhana
Reeves, Harry Payne	LA CE HSLA LA LA (SS)	10.2	O' Cuita
Reeves, Herman Thornton	LA (SS) Ag r	107	Citronelle, Ala.
Reeves, Herman Thornton	LA (SS) Ag r Ag r	107 29 1	Citronelle, Ala. Waterloo
Reeves, Harry Fayne Reeves, Herman Thornton Rehling, Charles Henry Reichard. Della May	Ag r Ag r LA	107 29 1	Citronelle, Ala. Waterloo
Reeves, Harry Fayne Reeves, Herman Thornton Rehling, Charles Henry Reichard. Della May	Ag r Ag r LA EE	107 29 1	Citronelle, Ala. Waterloo
Reeves, Harry Fayne Reeves, Herman Thornton Rehling, Charles Henry Reichard. Della May	Ag r Ag r LA EE	107 29½ 38½ 74 133¾	Citronelle, Ala. Waterloo Urbana Deer River, Minn. Ozark
Reeves, Harry Fayne Reeves, Herman Thornton Rehling, Charles Henry Reichard. Della May	Ag r Ag r LA EE SS	107 29½ 38½ 74 133¾	Citronelle, Ala. Waterloo Urbana Deer River, Minn. Ozark
Reeves, Herman Thornton	Ag r Ag r LA EE	107 29 1	Citronelle, Ala. Waterloo Urbana Deer River, Minn. Ozark

Reimert, Robert Rutter, Jr.	AE	94	Chicago
Rein, Fritz	Agr	137	Gilman
Reinel, Bert Edward	LA		Streator
Reinhart, Irvin Julius	Agr sb	32	Alhambra
Reinhart, Irvin Julius Reisner, Charles Leonard Reitz, Walter Richard	Agr (SS)	110	Sterling
Reitz, Walter Richard	ME	116	Chicago
Remsberg, William Norris Renner, Julia Elizabeth Renner, Sylvia Pearl	Ch		LaMoille
Penner Julia Flizabeth	LA	32	Urbana
Renner Sulvia Pearl	HSAgr	62	Urbana
Reno, Guy Benjamin Renwick, George W Requarth, Clarence Fredrick Reuling, Fred William Reum, Hope Edwin Rewinle, Daphne Margaret	LA	35	Browning
Pennick Coorge W	ME	5	Chicago
Descent Classes Fradrick	AE	,	
Requarth, Clarence Fredrick		60	Decatur
Reuling, Fred William	BLA		Morton
Reum, Hope Edwin	ÇE	113	Chicago
Rexwinkle, Daphne Margaret Rexwinkle, James		59	Vandalia
Rexwinkle, James	A		Vandalia
Rhea, Chleo James Jares Rice, Grover Colvin Rice, Hugh Monroe	EE	551	Jacksonville
Rice, Grover Colvin	S	81	Irving
Rice, Hugh Monroe	Agr	631	Gillespie
Rich, Donald Bert	Agr	331	Chicago
Rich, Ernest Albert	L	57	Washington
Rich, Irwin DeForest	\boldsymbol{A}		Cedar Rapids, Ia.
Rich, John Lindsay	BLA		Farmer City
Rich, Donald Bert Rich, Ernest Albert Rich, Irwin DeForest Rich, John Lindsay Rich, Paul Cobb	ChE	75	Chicago
Richards, Helen Marie	S	731	Joliet
Richards, Lenore	HSLA	56	Urbana
Richardson Charles	Agr	70	Louisville, Ky.
Richardson, Charles Richardson, Frank B, Jr.	Agr	48	Chenoa
Dichardeon Juanita Bonnia	HCAne ICC	1 20	Dangilla
Richardson, Juanita Bonnie	CE (33	7.4	Urbana
Richart, Frank Erwin Riche, Arthur Louis	EE	124	Nous Christs Is
Riche, Arthur Louis	EE 4aa	52	Nora Springs, Ia.
Richey, Friedel Chapin	Agr	341	Chicago
Richmond, George Kerns	BLA	349	Prophetstown
Ricks, Helen Gladys	SS LA	74 124 52 341 4 101 1311	Iowa Falls, Ia.
Riddle, Lillian	LA	101	Mattoon
Ridgley, Temple Elliott	SS	$131\frac{1}{2}$	Springfield
Riesmeyer, Fred Haase	1191		St. Louis, Mo.
Riff, David Morris	CE	75	Chicago
Rigg, Granville Leroy	Agr sp (SS,) 36 1	Goldengate
			Jerseyville
Riggs, Ray Vere Righter, Nellie Pauline Righter, Pearl Geneva Rinaker, Dorothy Sue Ripley, Jean Kimberly Rising, Blanche Josephine Ritchey, Royal Wane Ritter, Ferdinand Theodore Ritter, Glenn Arthur Ritts. Charles Laurance	Agr LA (SS)	921	Champaign
Righter, Pearl Geneva	1.A SD	33	Saunemin
Rinaker, Dorothy Sue	HSLA	28	Springfield
Ripley, Jean Kimberly	Agr	62	Chicago
Rising, Blanche Tosephine			Champaign
Ritchey Royal Wane	Agr	27 33 44	Urbana
Ritter Ferdinand Theodore	EE	44	St. Louis, Mo.
Ritter Glenn Arthur	LA	• •	Vandalia
Ritts, Charles Laurance	A	37	Oblong
Rives, Nannie Baxter	LA sp	28	Rockbridge
	HSLA	33	Congress Park
Robbins, Ruth	SS	8	
Roberson, Mary			
Robert, Jules Henry	33		Mound City
Roberts, Asbury	ME	75	Lacon
	ME	75	Lacon St. Louis, Mo.
Roberts, Elmer	ME	75	Lacon St. Louis, Mo. Burnside, Ky.
Roberts, Elmer Roberts, Erma Dorothy	ME	75 10 105 66	Lacon St. Louis, Mo. Burnside, Ky. Chicago
Roberts, Elmer Roberts, Erma Dorothy Roberts, Harold Higbee	ME	75 10 105 66	Lacon St. Louis, Mo. Burnside, Ky. Chicago White Hall
Roberts, Elmer Roberts, Erma Dorothy Roberts, Harold Higbee Roberts, Harry Vivian	ME	75 10 105 66 60 134	Lacon St. Louis, Mo. Burnside, Ky. Chicago White Hall Morning Sun, Ia.
Roberts, Elmer Roberts, Erma Dorothy Roberts, Harold Higbee Roberts, Harry Vivian Roberts, Irvin Levi	ME	75 10 105 66	Lacon St. Louis, Mo. Burnside, Ky. Chicago White Hall Morning Sun, Ia. Springfield
Roberts, Elmer Roberts, Erma Dorothy Roberts, Harold Higbee Roberts, Harry Vivian Roberts, Irvin Levi Roberts, Kathleen Alice, A.B., 1906	ME	75 10 105 66 60 134 16 1	Lacon St. Louis, Mo. Burnside, Ky. Chicago White Hall Morning Sun, Ia. Springfield Champaign
Roberts, Elmer Roberts, Erma Dorothy Roberts, Harold Higbee Roberts, Harry Vivian Roberts, Irvin Levi Roberts, Kathleen Alice, A.B., 1906 Roberts, Lois Madeline	ME SS Agr (SS) HSAgr ME AE SS SS SS	75 10 105 66 60 134 16 1 102 1	Lacon St. Louis, Mo. St. Louis, Mo. Burnside, Ky. Chicago IV hite Hall Morning Sun, Ia. Springfield Champaign Decatur
Roberts, Asbury Roberts, Elmer Roberts, Elmer Roberts, Harold Higbee Roberts, Harry Vivian Roberts, Irvin Levi Roberts, Kathleen Alice, A.B., 1906 Roberts, Nellie Read	ME SS Agr (SS) HSAgr ME AE SS SS SS LA	75 10 105 66 60 134 16 1 102 1 113	Lacon St. Louis, Mo. Burnside, Ky. Chicago White Hall Morning Sun, Ia. Springfield Champaign Decatur Champaign
	ME SS Agr (SS) HSAgr ME AE SS SS SS SS LA LA	75 10 105 66 60 134 161 1021 113 101	Lacon St. Louis, Mo. Burnside, Ky. Chicago White Hall Morning Sun, Ia. Springfield Champaign Decatur Champaign Morrison
Robertson, Eva Love Robertson, Louis Harry	ME SS Agr (SS) HSAgr ME AE SS SS SS LA	75 10 105 66 60 134 16 1 102 1 113	Lacon St. Louis, Mo. Burnside, Ky. Chicago White Hall Morning Sun, Ia. Springfield Champaign Decatur Champaign
Robertson, Eva Love Robertson, Louis Harry	ME SS Agr (SS) HSAgr ME AE SS SS SS SS LA LA CE	75 10 105 66 60 134 16 1 102 1 113 101 55	Lacon St. Louis, Mo. Burnside, Ky. Chicago White Hall Morning Sun, Ia. Springfield Champaign Decatur Champaign Morrison
	ME SS Agr (SS) HSAgr ME AE SS SS SS SS LA LA	75 10 105 66 60 134 161 1021 113 101	Lacon St. Louis, Mo. Burnside, Ky. Chicago White Hall Morning Sun, Ia. Springfield Champaign Decatur Champaign Morrison

Robinson, Albert William	ME		Oak Park
Robinson, Florence Elinor Robinson, Henry Duncan	LA	104	Urbana
Robinson, Henry Duncan	BLA	29	Rockford
Robor Rena	SS ChE	6	Mt Vernan
Robrock, Lawrence Martin Rockhold, Kenneth Edward Rockrohr, William Rockwell, Sylvester Thomas	CLE	41	Mt. Vernon St. Louis, Mo.
Postbold Kenneth Edward	CerE	72	Danis, Mo.
Destante William	DIA		Burlington, Ia.
Rockforf, William	BLA	. 5	Dolton
Rockwell, Sylvester Thomas	CE	36	Rock Island
Rodemeyer, Benjamin Eusebius	ME (SS)	711	Sterling
Rodgers, Perry Harrison	BLA	_	Atwood
Roe, Harry Austin	ME	351	Lanchburg, Sask.
Roefer, Charles Martin	Cer (SS)	46	Elgin
Possner Hadwig Elizabeth	14 (55)		
Passier, Hedwig Elizabeth	Mus (SS)	11	Moline
Roessier, William Otto	Agr		Shelbyville
Rogers, Gardner Spencer	Agr		Evanston
Rogers, Harry Barrett	CE	423	Oak Park
Roesner, Hedwig Elizabeth Roessler, William Otto Rogers, Gardner Spencer Rogers, Harry Barrett Rogers, Harry Thomas	AE		Champaign
Rogers, Russell David Rolde, Minnie Eleanore	AE		Pekin
Rohde, Minnie Eleanore	HSAgr		Bement
Robling Alfred Robert	BLA	71	Groveland
Pohlfing Walter Louis	Agr	11	
Rollfing, Alfred Robert Rollfing, Walter Louis Rohn, Fred Andrew			Groveland
Konn, Fred Andrew	AE		Chicago
Rohrbough, Frank Charles	CE	108	Kinmundy
Rohrer, Frank Phillip	ChE	32	Gilman
Roland, Lela Mae	HSAgr		Champaign
Rohrer, Frank Phillip Roland, Lela Mae Roland, Vern Anton	AE	73	Champaign
Rolfe Amy Lucile A B 1008	Mus	• •	Champaign
Rolfe, Amy Lucile, A.B., 1908 Rollo, Robert Penman	L	80	
	4		Murphysboro
Roman, Oscar	Agr	65	Granite City
Romeiser, Alvin Romine, Joseph Fred	BLA		Belleville
Romine, Joseph Fred	Agr	36	Atwood
Roodhouse, Henry	Agr		White Hall
Root, Kimball Valentine	Cer	58	Chicago
Root, Kimball Valentine Rooth, Carrie Lee	LA (SS)	86	Joy
Ropiequet, Wilfred Crouch	LA	75	Belleville
Rose, Harold Boone	ME	30½	Urbana
Describer Herbert Describ		302	
Rosenberg, Herbert Bernard	Agr		Granite City
Rosenthal, Joseph D	Agr sp	10	Pawpaw
Rosenthal, Joseph D	Agr		Chicago
Rosenstone, Reuben Eric	Agr		Cambridge
Ross, Clarence Samuel	9	$111\frac{1}{2}$	Joplin, Mo.
Ross, Gertrude Duncan	รัฐ	4	Philo
Ross Glenn Thompson	BLA	84	Urbana
Ross, Glenn Thompson Ross, Kenneth Lwight	LA	07	Grand Island, Neb.
Poss, Reinfeth Dwight	LA		Grana Islana, Neb.
Ross, Robert Malcolm,	•		C1.1
A.B., 1905, M.D., 1906	S LA	130	Chicago
Ross, Roy Meneley	LA	81	Urbana
Ross, Roy Meneley Ross, Thomas Allen	Agr	34 1	Chicago
Rossett, Louis	EE	85	Chicago
D-41. D T	S		Chenoa
Rothgeh Jessie Blanche	HSLA	66	Wellington
Pothecols Hamand Massa	EE	00	Chicago
Potterer Descrit Continue	LA	101	
Rouger, Russel Curtis			Springfield
Rounds, Fred Grafton	A_{-}	40	St. Paul, Minn.
Rourke, Ellen M	S S	26 1	Springfield
Rourke, Margaret Elizabeth	SS	7	Springfield
Rowe, Clinton Albert	Agr		Linton, Ind.
Roth, Ben J Rothgeb, Jessie Blanche Rothger, Russel Curtis Rounds, Fred Grafton Rourke, Ellen M Rourke, Margaret Elizabeth Rowe, Clinton Albert Rowe, Enos Marion Rowe, Eugene Chauncey Rowe, Eighard Vates	Agr	68	Shoals, Ind.
Rowe, Eugene Chauncey	EE	1027	Veedersburg, Ind.
Rowe, Richard Yates	LA (SS)	961	Jacksonville
	LA	30%	Oak Park
Rowland, Leslie William			
Roy, Herman Emil	A	401	Chicago
Koy, Sury Kauta	S ChE	60±	Lucknow, India
Ruby, George Benjamin	ChE	31	Yorkville
Roy, Sury Kauta Ruby, George Benjamin Ruby, Irving Randolph	ChE	116	Yorkville
Ruckel, John Garland	Agr	55 1	Springfield
•		-	

Rucker, Herbert Judson	Agr	126	Jacksonville
Dana Onlin			
Rue, Orne	ME	37	Mattoon
Rue, Orlie Rueff, Joseph Alvin Rugg, Earle Underwood Ruhl, William Allen	ME		Oak Park
Duna Fasta Undannand	LA	261	Tital 1 3
Rugg, Larie Underwood		403	Fitchburg, Mass.
Ruhl, William Allen	Agr	34	Baltimore, Md.
Dulin Man	BLA	21	Claudant Old
Rukin, Max		21	Cleveland, Ohio
Rumery, Fay Rundles, Charles Morton Rundles, Earl Rundles, Lloyd William	Agr	1211	Oregon
Donalles Charles Manton		25	77
Rundles, Charles Morton	LA	25	Huntertown, Ind.
Rundles, Earl	CE	1161 321	Huntertown, Ind.
D 11 T 1 1 117:11:	ĔĒ	221	77
Rundles, Lloyd William		343	Huntertown, Ind.
Runk, Oliver	ME	25	Sterland.
D 1 D 1	CC	0.3	Citing
Runk, Oliver Rush, Francis Edward Rush, Ira Leon Rush, Roy Leslie	SS	83 57 34	Galesburg
Rush Ira Leon	A	57	Minot, N. D.
D i D I i'		3,4	Si.not, 11. D.
Rush, Roy Leslie	LA	34	Council, Idaho
Russell, Frances	HSAgr		Urbana
Russell, Trailees	115,119,		
Rust, Louis John	EE		Pekin
Rust, Louis John Rusy, Ben Franklin	Agr		Chicago
Rusy, Dell Trankin	2197		
Rutenber, Frances Marie	HSLA	34	Champaign
Ruth, Rowland William Ruth, Thomas Lenor	ME (SS)	41	Aurora
Ruth, Rowland William	TTL (33)	71	
Ruth, Thomas Lenor	L		San Jose
Rutherford, Eugenia Elizabeth	L LA	59	Newman
Tutheriord, Dagema Distances	211	37	
Rutledge, Burch Irwin Ryther, Henry White	S		Chatsworth
Puther Henry White	ME	71	Chicago
Ryther, Henry White		/1	
Sackrider, Charles Norman	ME	75	Ishpeming, Mich.
Sackrison Tulius Alvin	Agr sp	34	Batavia
Sackitson, Junus Mivin			
Sackrider, Charles Norman Sackrison, Julius Alvin Sadler, Walter Clifford Saffell, Gladys Deforest	RCE	119	Elgin
Saffall Cladus Deforest			
Sallell, Gladys Deloiest	Mus sp HSS sp		Urbana
Sager, Anna Ellen Sailor, Ira Carl	HSS sb	34	Belvidere
Cailes Im Cast		27	Ciarra Dant
Sanor, Ira Cari	Agr	34 27 33½	Cissna Park
St. Lawrence, James R	Agr	333	Chicago
Calmanda Park William		002	Clina
Sakrzewsky, Fred William	Agr		Chicago
Salazar, Jose Urbano	Agr	75	Chihuahua, Mexico
Callatana Faul Miller		20	411.1. D.
Sansoury, Lari Miller	BLA	20	Albion, Pa.
Salisbury, Earl Miller Salisbury, Ethel Imogene	LA	75 20 101 65	Woodstock
Call'at and Carrows Wastingston			4
Salisbury, George Washington	Agr	65	Astoria
Sallee, Gordon Francis Sallee, Roy Merridith	ME		Litchfield
Catt D M Little		68	C
Sallee, Roy Merridith	SS	68	Gerlaw
	UCC	22	Washington
Dampson, The Listena	1100	22	
Sampson, Lloyd Carson	L		Washington
Samuels Thomas Walter A R 1006			•
Sampson, Lloyd Carson Samuels, Thomas Walter, A.B., 1906, A.M., 1912	-		
A.M., 1912	L	24	Carrollton
Samuelson, Raphael Adelford	EE	$31\frac{1}{2}$	Elgin
		312	Ligin
Sandall, Ernest Eugene	Agr	$99\frac{1}{2}$	Burlington
Conders Coores Edward	Md	21	Chambaian
Sanders, George Edward Sanders, Laura Marie		31	Champaign
Sanders, Laura Marie	HSS	101	Champaign
Conders Dalah Lloyd	CE	31 101 69	Glasford
Sanders, Ralph Lloyd		Uy	Giasjora
Sanford, Harriet Adelaide	HSLA		Danville
Sangdahl, George Stanley Saperston, O Nathan Sargeant, Southworth Samuel	CE	114	Chicago
Sanguani, George Stattley	CL		
Saperston, O Nathan	EE	75	St. Charles
Sargeant Southworth Samuel	L	81	Geneva
Sargeant, Southworth Samuel		01	Geneva
Savage, Arthur Dale Savage, Lillian Waters Savage, Marie Savage, William Elliott	Agr	641	Champaign
Comego Lilliam Waters	LA	81	Belleville
Savage, Liman waters			
Savage, Marie	LA	35	Urbana
Company Williams Filliant	Md		D all and 11 a
Savage, William Elliott			Belleville
Saville, Edward William	Agr sp		Canton
Common Honey Creeles	ChE	5.5	Manmanth
Sawyer, Henry Greeley	UNE	23	Monmouth
Sawyer, Henry Greeley Sawyer, Margaret	HSAgr	61	Belleville Canton Monmouth Norborne, Mo. Chicago
Can Canall William		-	Chianna
Sax, Carroll William	LA		
Saxton, Catherine Sayre, Charles Bovett Scales, Walter Howard	HSAgr	56	Pueblo, Colo.
Carra Charles Danett		115	Chi
Sayre, Charles Bovett	Agr	115	Chicago
Scales, Walter Howard	AE	76	Fort Worth, Tex.
C-1 Port Boult	T A		
Schaarman, Emil Ferdinand	LA sp	36	Edgington
Schadt, Mabel Eva	HSS	663	
		003	
Schaefer, Edgar Frederick	LA		Quincy
Schaffer, Otto George	Agr	611	Lake Forest
Schaffer, Otto George Schalck, Edward Michael	£ 9'		
Schalck, Edward Michael	S	98	Chicago
			-

Schaller, Emma Eugenia Schaller, Gilbert Simon	HSLA	66	Mendota
Schaller Gilbert Simon	ME	28	Mendota
Calantin Conne Mannin			Mazon
Schauffn, George Marvin	Cer	28	Mazon
Schecter, Ralph Wendell	LA		Danville
Scheele, Donald Charles	ME	36	Elgin
Schaulin, George Marvin Schecter, Ralph Wendell Scheele, Donald Charles Scheid, Jacob Philip	SS	1311	Freeburg
Scheidecker, Glenn W Smiley	BLA	92	
Scheidecker, Gleini W Sinney	A (CC)	82 23	Sycamore
Schenck, Ralph Edwin	A(SS)	23	Urbana
Schetnitz, Hymen	BLA	38₺	Chicago
Schickendanz, Louis Herman	ME	_	Chenoa
Schickendanz, Louis Herman Schiesswohl, Philip George Schiesswohl, Ralph Louis Schiffbauer, Gretchen	BLA	28	Chicago
Schiesswohl, Fillip George	DLA		
Schiesswohl, Ralph Louis	BLA	2	Chicago
Schiffbauer, Gretchen	HSAgr sp	27	Benson
Schinnerer, Otto Paul	LA	103	Bay City, Mich.
Schlader, Edward Holmes	EE	100	Oak Park
Schlader, Edward Holmes	EE (CC)	_	
Schlutius, Louise Gustava Schmidt, Lorentz	LA (SS)	8	Gilman
Schmidt, Lorentz	\boldsymbol{A}	123 1	Clyde, Kansas
Schmidt, Paul Marvin	BLA		Earlville
Col In E Anthony		121	
Schmitz, Erwin Anthony Schmitz, Nicholas Joseph	CE	131	St. Louis, Mo.
Schmitz, Nicholas Joseph	EE	713	Madison, Wis.
Schneider, Arthur Charles Schneider, Daniel Charles	CE		Galena
Schneider, Daniel Charles	ME	54	Nokomis
Schneider, Daniel Charles	111.12	34	1 VOKOMIS
Schneider, Henry Frank, A.B. (Cen-			
tral Wesleyan Coll.) 1910	SS		Nokomis
Schnellhach John Francis	MSE	$106\frac{1}{2}$	Dixon
Schnellbach, John Francis Schnitker, Roger Reed	S	2002	Chrisman
Schnitker, Roger Reed	2		
Schobinger, Eugene Schoessel, Carl Arthur	MSE	37	Morgan Park
Schoessel, Carl Arthur	ME	114	Rock Island
Scholl Clarence	ChE (SS)	109	Watseka
Scholl, Clarence Scholl, Raymond Stanley	Agr	107	
Scholl, Raymond Stanley	Agr		Pittsburgh, Pa.
Schoolcraft, Plascie Lafayette	LA (SS)	94	Chester
Schoonover, Warren Rippey	Agr	120	Alhambra, Cal.
Schönnerle Pichard Tosenh	Ch	64	Oil City, Pa.
Schopperie, Richard Joseph	CE	7	Chicago
Schoolcraft, Plascie Lafayette Schoonover, Warren Rippey Schöpperle, Richard Joseph Schrader, William Louis	CE sp	7	Chicago
Schrier Emil Paul	AE	82	Verdigris, Neb.
Schroeder Glenn Wilson	Agr	691	Joliet
Schroeder, Glenn Wilson Schucker, Rudolph Wester Schueler, Herbert Schuette, Otto	A	117	Mt. Carmel
Schucker, Rudolph Wester	A	111	
Schueler, Herbert	ME		LaSalle
Schuette, Otto	Agr		Chicago
Schuh, Darrel Smith	BLA		Cairo
Calamarahan II.ama William	Md		
Schumacher, Harry William Schurecht, Harry George			Altamont
Schurecht, Harry George	Cer	61	Chicago
Schutte, William George	ME		Marseilles
Schuyler, Andrew Livingston	EE	62	Clinton, Ia.
Colonada Taria Barimana A D		02	onnion, 14.
Schwartz, Louise Fenimore, A.B.			77 '11
Schwartz, Louise Fenimore, A.B. (Knox Coll.) 1907	Lb		Knoxville
Schwartze, Rudolph Alfred	Agr		Urbana
Schwarzkonf Horace Valentine	Agr	28	Chicago
Calmina Edmand Albant	Agr (SS)	451	Peoria
Schwing, Edward Albert Scott, Clarence Vincent Scott, Ernest Somers Scott, Neva Augusta		473	
Scott, Clarence Vincent	Agr		Oak Park
Scott, Ernest Somers	EE	75	Oak Park
Scott Neva Augusta	LA		Urbana
C	SS	129	Berwyn
Scott, Raiph Cleiand		129	
Scott, Ralph Cleland Scott, Robert Ashmore Scott, Shirley Edward	Agr		Paris
Scott, Shirley Edward	LA	15	Anderson, Ind.
Soudder John Laurence	Agr		Ogden, Utah.
Construction Tallette		27	Caubon dala
Scudder, John Laurence Searing, John Henry Searles, Donald Kenneth	L	27	Carbondale
Searles, Donald Kenneth	Agr		LaGrange
Sears, Ogal Hesse	Agr	78	Oblong
Searts, Ogal Hesse Secor, Edmund Clay Seed, Harry Raymond	Agr	76	Carrollton
C. J. T. D. J.		, 0	
Seed, Harry Raymond	Agr		Billett
Seed. Uscar Vern	L		Lawrenceville
Seeley, Esther Beulah	SS	123	Normal
Seeley Pohert Mayer	BLA	3	Freeport
Seciey, Aubert Mayer			
Seeley, Esther Beulah Seeley, Robert Mayer Seibel, Glee Page	BLA		Manlius
Seidenberg, Nathan Cook	L	28	Peoria

Seifried, Arthur George	Cer		Chicago
Seifried, Arthur George Seiler, George William	SS	128	Woodstock
Seip, Ernest Walter Joseph	ME	98	Chicago
Sekine, Sentaro	ME	129	Kodama, Saitama,
			Japan
Sellards, William Heine	Agr	15	Champaign
Sells, Simeon Wells Johnson	LA	13	LaGrange
Semple, Arthur Truman	Agr		Riverton
Sendenbrugh, Edith Irene	LA	99	Champaign
Senneff, George Freeman Sense, William Joseph	Agr	321	Rock Falls
Sense, William Joseph	Ą	46½	Watseka
Senter, Lester Thomas Severinghaus, Milton George Henry	Agr	4001	Oakland
Severinghaus, Milton George Henry	BLA	100 1	Chicago
Seward, Hiram Bricker Sewell, Sidney Isaac	Agr		Indianapolis, Ind.
Sewell, Sidney Isaac	ÇerE	100	Belvidere
Seyster, Ernest Lawrence	LA	291	Kempton
Seyster, Mildred Clayton Shaffer, Charles Franklin	S	121	Kempton
Shaffer, Charles Franklin	EE	30	Quincy
Shaffer, Rolla Fleming	Agr	100	Jeffersonville
Shapland, Earl Page Sharman, Jnanendra Nath	ME	108	Saunemin
Sharman, Jnanendra Nath	LA sp	1242	Calcutta, India
Sharp, Bertha Lee	LA	134 3	Urbana
Shaw, Edward Byer	Md	"	Urbana
Shaw, Ellis Marsh Shaw, Harold Allen	AE	66	Rockford
Shaw, Harold Allen	Agr		Urbana
Shaw, Hazel Yearsley, A.B., 1907,	7 1		II-lana
A.M., 1908 Shawl, Ray Iris	Lb	221	Urbana
Shawi, Kay Iris	Agr	$32\frac{1}{2}$	Princeton
Snedden, Donald Boyd	Agr	7 5	Elgin
Sheets, Frank Thomas	MSE	75	Palmyra, Mo.
Sheetz, A Vernon	BLA		Freeport
Shelby, Edwin, Jr.	CE EE	27	New Orleans, La.
Sheldon, Henry Kellogg		37	Sharpsburg
Sheldon, Walter William Sheldon, Warren Maxwell	S	471	Winnebago
Sheldon, Warren Maxwell	Agr BLA	67 1 26	Sharpsburg Decatur
Shellabarger, David Stuart Shellabarger, William Lincoln, Jr.	ChE	20	Decatur
Shelton, Wilma	SS	97	Terre Houte, Ind.
	Agr (SS)	93	Shantung, China
Shen, Wen-Yu	Ayr (33)	93	Shaning, China
Shepard, Anna Lucile, A.B. (Iowa State Univ.) 1910	Mus		Muscatine, Ia.
Shappard Tames Douglass	EE	96	Peoria
Shepperd, James Douglass Sherman, Carl Lee Shewhart, Walter Andrew Shields, Eugene Clifton	CE	37	Sandoval
Showhart Walter Andrew	CL	103	New Canton
Shields Eugene Clifton	s ss	20½	Mason
Shields, Harold Johnson	ME	202	Sullivan, Ind.
Shields John Frwin	Agr	20	Lewiston
Shields, John Erwin Shields, John P Shields, Mrs. Mabel Hughes	AE	36	Washington, Ia.
Shields Mrs Mahel Hughes	SS		Mazon
Shinman William Davis	CE	5 57	Seattle, Wash.
Shively Tean	SS	24	Champaign
Shipman, William Davis Shively, Jean Shively, Walter Scott Shobe, Claire Fletcher Shobe, Frank Dilling	ME	37	Chicago
Shohe Claire Fletcher	LA		Chicago
Shohe, Frank Dilling	Ĩ.	57	Urbana
	ĒΕ	89	Abingdon
Shonle, Horace Abbott	ChE	34	Tuscola
Shonle, Horace Abbott Shonts, Turrill Dean Shook, Charles Harmon	BLA	28	South Bend, Ind.
Shook, Charles Harmon	AE	26	Champaign
Shotwell, Ida Mae Shuck, Helen	HSS	691	Evanston
Shuck, Helen	LA		Urbana
Shultz, Edith Adeline	LA	92	Chicago
Shultz, Hazel Marguerite	HSAgr	95	Rockford
Shulz, Ernest Rudolf	Agr sp		Moscow, Russia
Siebens, Arthur Robert	Agr	321	Minonk
Siegfried, Edward Olaf	AE	34	Chicago
Siemen, Bertha Anna	LA	951	Stockton

Sie	emen, Webb Mellin		\boldsymbol{A}	131	St. Joseph, Mo.
- 516	vert. Carl William 10an		ChE (SS)	98	Blue Island
Si	gerson, Wilfred Carl kman, John Mead l, Leo Lester		LA	67	Mason City
Sil	kman, John Mead		MnE	44	Baltimore, Md.
Sil	1. Leo Lester		Mus		Champaign
Si	mison, Earnest Newton		Agr sp		Chicago
Si	mmonds, Emry Seldon		EE		Camp Point St. Charles
Si	mmonds, Emry Seldon mmons, Theodore Switzer		Agr		St. Charles
Sin	nms, William Henry non, Walter Henry		Agr	23	Gibson City
Sit	non. Walter Henry		A	36	Quincy
Sit	nonich, John Lawrence		EE	73	Joliet
Si	nons, Raymond Samuel		S Ch (SS) ME	92	Chicago
	nonson, Guy Loraine		Ch (SS)	621	Downers Grove
C:	npson, Arthur Moulton		ME	124	Chicago
211	mpson, George Eric		Ch (SS)	102	Chicago
C:	ns, Clarence Edgar		ChE	35	Chicago
			LA	33	Newton
211	ns, Delbert Edward		SS	130	Urbana
Sis	sam, Mrs. Cora Hutton			371	Champaign
213	zer, Albert Dann zer, Bruce Lucius		Agr ME	3/2	
512	zer, Bruce Lucius			60	Champaign Dansilla
Sk	adden, Harvey Frank		A (CC)		Danville
Sk	emp, Samuel Charles iles, James Roy		Agr (SS)	46	Maywood
Sk	iles, James Roy		SS A	130	DeKalb
Sk	inner, Edward Ainsworth inner, Hazel		Ą	12	Oak Park
Sk	inner, Hazel		LA		Garden City, Kan.
Sk	inner, John Knox inner, Winifred Voorhees oglund, Carl August		\$\$ \$\$	111	
Sk	inner, Winifred Voorhees		SS	8	Nashville
Sk	oglund, Carl August		ME	103	Ishpeming, Mich.
Sla	ack, Herbert Lee		CE	3 5	Chicago
SI	adek, Edward Frank		Cer		Cicero
SI	ater. Frank Charles		LA	71	Cherry Valley
SI	ater, Frank Charles ater, Maynard Elmer		Agr	32	Belvider e
SI	ayton, Willis Francis		Agr		Benton Harbor, Mich
Si	oan, Fred Lewis				Ray
Šr	nart, Robert Leroy		Agr sp CE (SS)	75	Davenport, Ia.
Sn	neikal. Frank John		Agr	91	Chicago
Sn	nejkal, Frank John niley, Lionel David		EE		Woodstock
S	nith, Adeline Mildred		LA	41	Champaign
S	nith, Mrs. Adelle Catherin	•	Mus sp	-	Richmond Beach,
DL	uith, Mis. Midene catherin	•			Wash.
c.	nith Alfred Dale		EE	109	Champaign
Si	nith, Alfred Dale nith, Blanche Margaret		HSAgr	56	Urbana
S.	nith, Bertram, Ph.B.	(Brown		-	0.00
SI	Univ.) 1910	(Diowii	Lb	10	Urbana
e-	nith, Bryce Dumond		Agr		Earlville
SI.	nith, Charles Eugene		ĈĔ	17	Chicago
SI.	mith, Charles Eugene		MnE	113	Clifton
ŞI	nith, Cecil Weldon		EE	74	Chicago
21	nith, Donald Jenks		ĒĒ	, ,	Chicago
Si	nith, Edwin Allan		Mus	28	Urbana
SI.	nith, Elizabeth Moree		Mus HSAgr	55	Oak Park
ຼວາ	nith, Edwin Allan nith, Elizabeth Moree nith, Florence Mildred nith, George Walter, Jr.		AE	491	
Si	nith, George Walter, Jr.			472	Wilber, Nebr. Vandalia
- 51	niin. Georgiana Dieckmani	n	HSLA	45	
Si	nith, Gladys May nith, Harold Gilman nith, Hazel mith, Hazel Eager		LA	65	Champaign
Si	mith, Harold Gilman		CE	23	Monmouth
Si	nith, Hazel		HSAgr	39	Urbana Double Ala
Si	mith, Hazen Lager		Agr sp		Prattville, Ala.
Sı	nith, Hubert Argo mith, Irene Fern		A.		Urbana
Si	mith, Irene Fern		Ch		Red Bud
Sı	mith, Julian Francis nith, Leo Lloyd nith, Leoti Vannie		Ch		Champaign
Şı	nith, Leo Lloyd		Agr		Loda
Şı	mith, Leoti Vannie		LA	31	Champaign
Sı	mith, Lloyd Gaston		ME	110	Chicago
Sı	mith, Marquis Joseph		Agr	72	Burdett, N. Y.
Sı	mith, Mary Parnell		<i>HSAgr</i>		Cuba
Sı	mith, Marquis Joseph mith, Mary Parnell mith, Merle LeRoy		BLA		Freeport

Could David MaCoulds	CC	109	Disaminaton
Smith, Paul McCorkle	ŞS		Bloomington
Smith, Paul Miller	Agr	631	Lincoln
Smith, Raymond Stratton, B.S.	Agr	192	Moorpark, Cal.
Smith, Paul Miller Smith, Raymond Stratton, B.S. (Pomona Coll.) 1907			
Smith Kellel Lhamon	ME	75	Champaign
Smith, Robert, Ir	ME	116	Chicago
Smith David Lee	CerE	10	Detroit, Mich.
Cmith Comust Theodore			
Smith, Samuel Theodore	BLA	25	Conway, Ark.
Smith, Robert, Jr. Smith, Royal Lee Smith, Samuel Theodore Smith, Stanley Christopher Smith, Stewart Tracy	BLA	62	Clayton
Smith, Stewart Tracy	AE	36⅓	Rose Hill, Ia.
Smith, Stuart Luthy Smith, Volney Potter Smith, Wilhelma Zoe Smith, Wilson Marshall	Md		Pittsfield
Smith. Volney Potter	Agr	681	Yorkville
Smith, Wilhelma Zoe	LA	35	Champaign
Smith Wilson Marshall	LA		Waverly
Cmithan Albert Thomas	A (SS)	73 1	
Smithson, Albert Thornton	II (33)	137	Lacon
Smock, Alice Bernice	HSAgr		Chicago
Smoot, Elizabeth Ellice	Mus	45	Fithian
Smock, Alice Bernice Smoot, Elizabeth Ellice Snapp, Roscoe Raymond	Agr (SS)	127 1	Findlay
Snider, Howard John	Agr	91 1	New Richmond, O.
Snoddy, Raymond Leffel	T	-	Perrysville, Ind.
Snoddy, Raymond Leffel Snook, John Donald	ChE	41	Sidney
Snook, Vera Jessie, A.B., 1911,	UNL	7.1	States
SHOOK, Vera Jessie, A.D., 1911,	7 1	1401	044
A.M., 1912	Lb	1421	Ottawa
Snyder, Glenn Snyder, Logan Abraham	Agr		Billett
Snyder, Logan Abraham	Agr	55	Kankakee
Soderberg, Andrew Frederick Sorensen, Niels Chester	AE	120	Florence, Wis.
Sorensen, Niels Chester	\boldsymbol{A}	122	Monticello, Minn.
Soto, Raafael Arcangel, B.S., 1912		146	Sabona Gr., P. R.
Souers, Marshall Ankeny	Agr (SS)	051	Das Mainas Ia
Castillar Dustaint Manage	1197 (33)	732	Des Moines, Ia. Bismark, N. Dak. Fargo, N. Dak.
Spalding, Burleigh Mason Spalding, Roscoe Conkling	A	1	Dismark, N. Dak.
Spalding, Roscoe Conkling	A	21	Fargo, N. Dak.
Spalding, Russell Albert	Agr	$53\frac{1}{2}$	Champaig n
Sparling, Donald Carl	A		Hammond, Ind.
Sparling, Donald Carl Spear, Elsie Travilla Spear, Harry George	HSS	66	Rock Falls
Spear, Harry George	SS	9	Assumption
Speck, Roy Henry	A	16	Evansville, Ind.
Spence Frederick Wilton	ËE	72	Elmwood
Spencer Charles Platton	A	1025	
Spence, Frederick Milton Spencer, Charles Blakley Spencer, Victor Elwin			Champaign
Spencer, Victor Elwin	Agr	321	Lockport
Spitler, Clarke H	BLA	99	Sullivan
Sponsel, Mrs. Eleanor Aldrich Sporlein, Louis Wolfgang Sprague, Harold Greene	LA	61	Champ aign
Sporlein, Louis Wolfgang	AE (SS)	75	Chicago
Sprague, Harold Greene	A	69	Des Moines, Ia.
Spraker, Glen Allen	AE	•,	Kokomo, Ind.
Springer Together Lee	Agr sp		Averyville
Springer, Jonathan Lee Sprowls, Luna Lenore Squier, Leon Walter Staat, Fielding Bond	2191 34	78	Gibson City
Sprowis, Luna Lenore	SS		
Squier, Leon Walter	ME	60	Rockford
Staat, Fielding Bond	Agr	30	Monmouth
Stabler lesse Lee	Agr	65½	Neponset
Stacheli, Otto Stafford, Herbert Stanley Levin Stahl, Myrtle Lois Stahl, Walter Andrew	ChE		Chicago
Stafford, Herbert Stanley Levin	MnE	77	Hubbard Woods
Stahl, Myrtle Lois	LA	60	Victoria
Stahl Walter Andrew	ME	6	Chicago
Stallings I sland Stanford	Agr	1043	
Chambarah Engl Mater			Granite City
Stambaugh, Fred Minton	L sp SS	28	Deland
Stanberry, Jesse Oscar	22	9	Homer
Stallings, Leland Stanford Stallings, Leland Stanford Stanberry, Jesse Oscar Stanberry, Stanley Ray	ME		Mason City, Ia.
Stark, John Edwin	S	63	Urbana
Starkey, Albert Lyle	SS	381	Pestotum
Starkey, Albert Lyle Starner, Verner	Agr		Carlisle, Ind.
Starr, Bernice Fallis	LA	64	Decatur
		07	
Starrett, David Burnham	Agr	701	Elgin
Staubitz, Louis Pierce	EE (SS)	701	Urbana
Stearns, Carl Garner	LA	73	Rankin
Staubitz, Louis Pierce Stearns, Carl Garner Stearns, Guy Thomas	Md		Champaign
Stebbins, John Marcus	Agr		Chicago
	_		-

Ctabbing Coldon Lawis	EE	81	Chicago
Stebbins, Selden Lewis			
Steele, Lottle Ennly	Agr	98	Galesburg
Steele, Ineron Broder	Agr	78	Robinson
Steele, Lottie Emily Steele, Theron Broder Steif, Benjamin Leo	A		Chicago
	Agr sp	33	Chicago
Steinbreder, William John Steinmayer, Alwin Gustav Steinmayer, Reinhard A, Jr. Steinmeyer, Herbert August	SS	143	St. Louis, Mo.
Steinmayer, Alwin Gustav	EE		LaSalle
Steinmayer, Reinhard A. Ir.	CerE		LaSalle
Steinmeyer Herbert August	BLA	47	St. Louis, Mo.
Stene, Ole	ChE		Elgin
Stonbone Ethal Cortrado	SS	225	Murphysboro
Stephens, Ethel Gertrude Stephens, Nora Ruth	33	448	
Stephens, Nora Kuth	LA		Browns
Stephens, Roger Lewis Stephens, Warren Russell	$_{L}^{L}$	40	Robinson
Stephens, Warren Russell	L	16	Urbana
Sterenberg, Bert Ludeus	Agr	3 3	Fulton
Sterling, George Edward Stevens, Alexander Henry	AE		Manitowoc, Wis.
Stevens, Alexander Henry	CE		Chicago
Stevens, Gladys Agnes	Mus	98 1	Urbana
Stevens, Homer	Agr sb	702	Fairland
Stevens, Raymond Monroe	A	951	Syracuse, N. Y.
Stevens, Raymond Monroe		324	Jaliat
Stevens, Richard William	Ągr	26	Joliet
Stevens, Sabra Elizabeth, A.B., 1906	Lb	168	Mahomet
Stevens, Vernon Thompson	BLA	52	Joliet
Stevens, Vernon Thompson Stevens, Wayne McKenzie Stevens, Wentworth Holt	Agr	37	Taylorville
Stevens, Wentworth Holt	Agr	75 1	Urbana
Stevenson, Augustus George	Md	28	Harvey
Stevenson, Cohn Ayres	ME	59½	Chicago
Stevenson, Comi Tiyres	Cer	372	Chicago
Stevenson, James Stevenson, James Vail, A.B., 1912 Stever, Mildred Pearl		1521	Streator
Stevenson, James vall, A.B., 1912	Agr	152⅓	517 04107
Stever, Mildred Pearl	HSAgr		Henry
Stewart, Allen	Agr_{-}		Oak Harbor, Wash.
Stewart, Allen Stewart, Earle Henry Stewart, Harold Burton	RME	36	St. Louis, Mo.
Stewart, Harold Burton	\boldsymbol{A}	126	Oak Harbor, Wash.
Stice, Henry Sylvester	ss _	43	Urbana
Stice, Kenneth Seymour	CerE	9	Urbana
	Cer		Canton
Stickney Ide Meribeth A B (Releit	007		00
Stickler, John Harrison Stickney, Ida Meribeth, A.B. (Beloit Coll.) 1904	Lb		Warren
Coll.) 1904	HSLA	72	
Stinson, Lavinia Shriver			Macomb
Stipp, Blanche Stipp, Frank Vennum	Mus	34	Champaign
Stipp, Frank Vennum	S CE	115 ½	
Stirton, James Crear	CE	3	Chicago _
Stitt, Raymond DeVries	EE	79	Morgan Park
Stocker, Harry Frederick Stocks, Mary Belle	CE		Highland
Stocks, Mary Belle	HSAgr	14	Garden City, Kan.
Stokes, Louis O'Connor	ME		Anna
Stoltey, Marie Jennie	HSLA	93	Champaign
Stone Albert Cetter	AE	4	Chicago
Stone, Albert Getten	A	80	Urbana
Stone, Othello Raymond Stone, Tom Candy		00	Ctanington
Stone, Tom Candy			
Stonier, Don Duane	Agr	671	T7 1
	Agr	67 1 34 1	Stonington Urbana
Stopp, Gerald Darfield	Agr LA	35	Plainfield
Stopp, Gerald Darfield Storey, Lester John	Agr LA Agr sp	35 24	Plainfield Shabbona
Stopp, Gerald Darfield Storey, Lester John Stough, Glenn Howenstein	Agr LA	35 24	Plainfield Shabbona
Storey, Lester John Stough, Glenn Howenstein	Agr LA Agr sp MSE	35 24 109 1	Plainfield Shabbona
Storey, Lester John Stough, Glenn Howenstein Stout, Earl Boyd	Agr LA Agr sp MSE ME	35 24	Plainfield Shabbona Overland Park, Kss. Freeport
Storey, Lester John Stough, Glenn Howenstein Stout, Earl Boyd Stoutzenberg, Florence Thomas	Agr LA Agr sp MSE ME HSAgr	35 24 109 1	Plainfield Shabbona Overland Park, Kan. Freeport Greenville
Storey, Lester John Stough, Glenn Howenstein Stout, Earl Boyd Stoutzenberg, Florence Thomas Stover, Orville Orlando	Agr LA Agr sp MSE ME HSAgr Agr sp	35 24 109 1 37	Plainfield Shabbona Overland Park, Kss. Freeport Greenville Mahomet
Storey, Lester John Stough, Glenn Howenstein Stout, Earl Boyd Stoutzenberg, Florence Thomas Stover, Orville Orlando Strang, Robert Leon	Agr LA Agr sp MSE ME HSAgr Agr sp Agr sp	35 24 109 1 37	Plainfield Shabbona Overland Park, Kan. Freeport Greenville Mahomet Antioch
Storey, Lester John Stough, Glenn Howenstein Stout, Earl Boyd Stoutzenberg, Florence Thomas Stover, Orville Orlando Strang, Robert Leon Strathman, John Herman	Agr LA Agr sp MSE ME HSAgr Agr sp Agr sp Agr	35 24 109 1 37	Plainfield Shabbona Overland Park, Kan. Freeport Greenville Mahomet Antioch Pekin
Storey, Lester John Stough, Glenn Howenstein Stout, Earl Boyd Stoutzenberg, Florence Thomas Stover, Orville Orlando Strang, Robert Leon Strathman, John Herman Stratton, Bernice Elizabeth	Agr LA Agr sp MSE ME HSAgr Agr sp Agr sp Agr HSLA	35 24 109 1 37	Plainfield Shabbona Overland Park, Kan. Freeport Greenville Mahomet Antioch Pekin Chicago
Storey, Lester John Stough, Glenn Howenstein Stout, Earl Boyd Stoutzenberg, Florence Thomas Stover, Orville Orlando Strang, Robert Leon Strathman, John Herman Stratton, Bernice Elizabeth	Agr LA Agr sp MSE ME HSAgr Agr sp Agr sp Agr HSLA LA	35 24 109½ 37 34 28½	Plainfield Shabbona Overland Park, Kan. Freeport Greenville Mahomet Antioch Pekin Chicago Evansville. Ind.
Storey, Lester John Stough, Glenn Howenstein Stout, Earl Boyd Stoutzenberg, Florence Thomas Stover, Orville Orlando Strang, Robert Leon Strathman, John Herman Stratton, Bernice Elizabeth Stratton, Grace Bruce Stratton, William Thomas	Agr LAgr sp MSE ME HSAgr Agr sp Agr sp Agr HSLA LA ChE	35 24 109½ 37 34 28½	Plainfield Shabbona Overland Park, Kan. Freeport Greenville Mahomet Antioch Pekin Chicago Evansville. Ind.
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Strock, Faraday James CE 37 Sterling Strockeker, Frank Sewald LA (SS) 78 Early Urbana Strong, Charles Howard BLA 28 Urbana Strong, George Woodworth Agr sp 32 Joliet Strong, Harry Danford Agr sp 32 Joliet Strong, Gorge Woodworth Agr sp 32 Joliet Strong, Harry Danford Agr sp 32 Joliet Strong, Robert Ambrose ME 37 South Bend, Ind. Strong, William Augustus S 70 Joliet Strong, Gring Herry Danford Agr sp 30 South Bend, Ind. Strong, William Augustus S 70 Joliet Strong, William Augustus S 71 Joliet Strong, Willia	Strickland, Ray Malcom	Agr	30	Urbana
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Sullivan, Nicholas Cyril Summers, Abel Ross Summers, Henry Elmer Sundell, Dean Harold Sunderland, Emily Kingman Supple, Margaret Suryich, Izzet Basili Suter, Earl Ray Sutherland, George Fred Sutherland, Wilbur Mills Suto, Ko Sutton, Frank Howard Swanson, Claude Magnus Swanson, Franke Bleanor Swanson, Frace Eleanor Swanson, Frederick Curtis Swanson, Norvid Raymond Swanson, Norvid Raymond Swanson, Ralph Arthur Swartwout, Edgar Chessman Swartwout, Edgar Chessman Swett, Leslie Wells Sweitz, John Willard Swett, Leslie Wells Swett, Leslie Wells Swett, Leslie Wells Sweit, Mary Ethel Swick, Mary Ethel Swick, Mary Ethel Swick, Mary Ethel Swick, Marguerite Maud Switzer, Theodore Ernest Swope, Russell Claude Sykes, James Thorburn Sykes, Webster Taber, Bayard Freeman Taggart, Frank, Jr. Talbert, Harold Arthur Talbot, Mildred Virginia, A.B., 1912 Tanner, John Riley Tarner, John Riley Tarte, Fred Reeves Tate, James Alfred Taylor, Arthur Cullen Sy Sy Taylor, Arthur Cullen Sy Sy Taylor, John Chicago Charles Agr Sy Tabet, Mary Ethel LA SS Taping, Charles Hawley Targle, Charles Nelson Targoski, Alexander Eli Taylor, Arthur Cullen Sy Sy Taylor, John Riley Taylor, Arthur Cullen Sy Sy Taylor, John Riley Taylor, Arthur Cullen Sy Sy Taylor, Arthur Cullen Sy Sy Taylor, John Riley Taylor, Arthur Cullen Sy Sy Taylor, Arthur Cullen Sy Sy Taylor, John Riley Taylor, Arthur Cullen Sy Sy Taylor, Arthur Cullen Sy Corbicago Taylor, Arthur Cullen Taylor, Arthur Cullen Sy Sy Taylor, John Riley Taylor, Arthur Cullen Sy Corbicago Taylor, Arth	Stumpt, Elmer Henry	BLA		
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Taber, Bayard Freeman Taggart, Frank, Jr. Talbert, Harold Arthur Talbot, Mildred Virginia, A.B., 1912 Tanner, John Riley Tanner, Thomas Tapping, Charles Hawley Tarble, Charles Nelson Tarrocki, Alexander Stephen Tarracciano, Alexander Eli Tate, Fred Reeves Tate, James Alfred Taylor, Arthur Cullen SS Joseph Grig Suyis Urbana Voster, O. Garrett, Ind. Urbana Springfield Dwyhi A 63 Peoria Teoria Hot Springs, Ark. Chicago Chicago Tate, Fred Reeves L 54 Chicago Tate, James Alfred Taylor, Arthur Cullen SS 5½ Cincinnati, O.	Swite Marguerite Mand	LA		
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Taber, Bayard Freeman Taggart, Frank, Jr. Talbert, Harold Arthur Talbot, Mildred Virginia, A.B., 1912 Tanner, John Riley Tanner, Thomas Tapping, Charles Hawley Tarble, Charles Nelson Tarrocki, Alexander Stephen Tarracciano, Alexander Eli Tate, Fred Reeves Tate, James Alfred Taylor, Arthur Cullen SS Joseph Grig Suyis Urbana Voster, O. Garrett, Ind. Urbana Springfield Dwyhi A 63 Peoria Teoria Hot Springs, Ark. Chicago Chicago Tate, Fred Reeves L 54 Chicago Tate, James Alfred Taylor, Arthur Cullen SS 5½ Cincinnati, O.	Swope, Russell Claude	LA	37	
Taber, Bayard Freeman Taggart, Frank, Jr. Talbert, Harold Arthur Talbot, Mildred Virginia, A.B., 1912 Tanner, John Riley Tanner, Thomas Tapping, Charles Hawley Tarble, Charles Nelson Tarrocki, Alexander Stephen Tarracciano, Alexander Eli Tate, Fred Reeves Tate, James Alfred Taylor, Arthur Cullen SS Joseph Grig Suyis Urbana Voster, O. Garrett, Ind. Urbana Springfield Dwyhi A 63 Peoria Teoria Hot Springs, Ark. Chicago Chicago Tate, Fred Reeves L 54 Chicago Tate, James Alfred Taylor, Arthur Cullen SS 5½ Cincinnati, O.	Sykes, James Thorburn		4/2	
Taggart, Frank, Jr. Talbert, Harold Arthur Talbert, Mildred Virginia, A.B., 1912 Tanner, John Riley Tanner, Thomas Tapping, Charles Hawley Tarble, Charles Nelson Tarnoski, Alexander Stephen Tarracciano, Alexander Eli Tate, Fred Reeves Tate, James Alfred Taubeneck, Victor Everett Taylor, Arthur Cullen Taylor, Arthur Cullen Agr Agr Agr Agr Agr Agr Agr Ag	Sykes, Webster	Agr sp	105	
Tanner, John Riley Tanner, Thomas AE Tapping, Charles Hawley A Tarble, Charles Nelson Agr 128 Tarnoski, Alexander Stephen Tarracciano, Alexander Eli Tate, Fred Reeves Tate, James Alfred Agr (SS) Agr (SS) Chicago Tate, James Alfred Agr (SS) Agr (SS) Agr (SS) Agr (SS) Chicago Tate, James Alfred Agr (SS) Agr (SS) Chicago Tate, James Alfred Agr (SS) Tate, James Alfred Agr (SS) Chicago Tate, James Alfred Agr (SS) Chicago Chicago Tate, James Alfred Agr (SS) Chicago Chicago Tate, James Alfred Agr (SS) Chicago Chicago Chicago Tate, James Alfred Agr (SS) Chicago Chicag	Taber, Bayard Freeman	A	105	Urbana
Tanner, John Riley Tanner, Thomas AE Tapping, Charles Hawley A Tarble, Charles Nelson Agr 128 Tarnoski, Alexander Stephen Tarracciano, Alexander Eli Tate, Fred Reeves Tate, James Alfred Agr (SS) Agr (SS) Chicago Tate, James Alfred Agr (SS) Agr (SS) Agr (SS) Agr (SS) Chicago Tate, James Alfred Agr (SS) Agr (SS) Chicago Tate, James Alfred Agr (SS) Tate, James Alfred Agr (SS) Chicago Tate, James Alfred Agr (SS) Chicago Chicago Tate, James Alfred Agr (SS) Chicago Chicago Tate, James Alfred Agr (SS) Chicago Chicago Chicago Tate, James Alfred Agr (SS) Chicago Chicag	Taggart, Frank, Jr.	Agr	0/2	Wooster, U.
Tanner, John Riley Tanner, Thomas AE Tapping, Charles Hawley A Tarble, Charles Nelson Agr 128 Tarnoski, Alexander Stephen Tarracciano, Alexander Eli Tate, Fred Reeves Tate, James Alfred Agr (SS) Agr (SS) Chicago Tate, James Alfred Agr (SS) Agr (SS) Agr (Chicago Chicago Tate, James Alfred Agr (SS) Ag	Talbert, Harold Arthur	BLA	33	
Tapping, Charles Hawley A 63 Peoria Tarble, Charles Nelson Agr 128 Hot Springs, Ark. Tarnoski, Alexander Stephen Tarracciano, Alexander Eli EE 76 Chicago Tate, Fred Reeves L 54 Chicago Tate, James Alfred Agr (SS) 50 La Junta, Colo. Taubeneck, Victor Everett EE Marshall Taylor, Arthur Cullen .SS 5½ Cincinnati, O.	Talbot, Mildred Vilginia, A.B., 1912	LA		
Tapping, Charles Hawley A 63 Peoria Tarble, Charles Nelson Agr 128 Hot Springs, Ark. Tarnoski, Alexander Stephen Tarracciano, Alexander Eli EE 76 Chicago Tate, Fred Reeves L 54 Chicago Tate, James Alfred Agr (SS) 50 La Junta, Colo. Taubeneck, Victor Everett EE Marshall Taylor, Arthur Cullen .SS 5½ Cincinnati, O.	Tanner, John Kney	AE		Demaka
Tarnoski, Alexander Stephen Tarracciano, Alexander Eli Tate, Fred Reeves Tate, James Alfred Tate, James Alfred Tatylor, Arthur Cullen SS 95 Chicago Chicago Chicago L 54 Chicago L Junta, Colo. Marshall Taylor, Arthur Cullen SS 5½ Cincinnati, O.	Tanner, Indinas	AE	62	Pagria
Tarnoski, Alexander Stephen Tarracciano, Alexander Eli Tate, Fred Reeves Tate, James Alfred Tate, James Alfred Tatylor, Arthur Cullen SS 95 Chicago Chicago Chicago L 54 Chicago L Junta, Colo. Marshall Taylor, Arthur Cullen SS 5½ Cincinnati, O.	Tarble Charles Nelson	Aan	129	
Tarracciano, Alexander Eli EE 76 Chicago Tate, Fred Reeves L 54 Chicago Tate, James Alfred Agr (SS) 50 La Junta, Colo. Taubeneck, Victor Everett EE Marshall Taylor, Arthur Cullen .SS 5½ Cincinnati, O.	Tarnocki Alexander Stephen	CC	120	Chicago
Tate, Fred Reeves Tate, James Alfred Taubeneck, Victor Everett Taylor, Arthur Cullen Los Chicago La Junta, Colo. Marshall Cincinnati, O.	Tarracciano Alexander Eli	55 FF	76	
Taubeneck, Victor Everett Taylor, Arthur Cullen EE Marshall Cincinnati, O.	Tate Fred Reeves	ī.	54	Chicago
Taubeneck, Victor Everett Taylor, Arthur Cullen EE Marshall Cincinnati, O.	Tate, James Alfred	Agr (SS)	50	La lunta Cala
Taylor, Arthur Cullen SS 5½ Cincinnati, O.	Taubeneck, Victor Everett	EE	50	Marshall
		22.	57	
	Taylor, Mrs. Edith Crater			

J-			Urbana	
	SS S	. 5	Lancaster, Wis.	
Taylor, Elizabeth Boyers Taylor, Everett Harvey Taylor, Englinand James	S	1041	Braceville	
Taylor, Everett Harvey	SS	2	Metropolis	
Taylor, Ferdinand James Taylor, Ferdinand James	L sp	20		
Taylor, Horace Albert, Jr.	HSAgr	$96\frac{1}{2}$	Chicago	
Taylor, Horace Emma Taylor, Marcus Prevost Taylor, Marcus Prevost	CE SS CE	108	Alton	
Taylor, Marcus Prevost	SS	98%	Chicago	
Taylor, Margaret Taylor, Milo Cornelius Taylor, Morris R Rathy Bridgeman	CE	59	Urbana Louisville, Ky.	
Taylor, Milo Cornelius			Chardon, O.	
Taylor, Morris R	EE		Bemen:	
Taylor, Ralph Bridgeman	Ā		Bement	
Taylor, Ross Wallace	ChE	1113		
Taylor, Scott Champlin	Ĭ.	29	Geneseo Lancaster, Wis.	
Taylor, Thomas Henry	Aar	139	Chambaian	
Taylor, William Lincoln, A.B., 1912	Agr	57	Champaign Chiagga	
Taylor, Morris R Taylor, Ralph Bridgeman Taylor, Ross Wallace Taylor, Scott Champlin Taylor, Thomas Henry Taylor, William Lincoln, A.B., 1912 Taylor, William Mitchell Tear. Henry Raymond	EE	831	Chicago	
Tear, Henry Raymond	Md	30	Litchfield	
C-area Averna	ChE		Canton Canton, China	
Telter, George Western Tendick, Frank Hulit Teng, Kwangtang Teng, Kwangtang Teng, Lucille Spotswood, A.B.	LA	99	Canton, China	
Tong Kwangtang			D to Va	
Teng, Kwangtang Terrell, Lucille Spotswood, A.B.	' Lb		Roanoke, Va.	
(Tulane Univ.) 1903	Ľ		Atwood Indianapolis, Ind.	
Tarrill Clarence Thomas	7 A		Indianapolis, 110.	
Popular Robert Isaac	LA (SS)	8	Champaign	
That Olga Elizabeth	Agr sp	35	St. Charles	
(Tulone Univ.) 1905 Terrill, Clarence Thomas Terry, Robert Isaac Thal, Olga Elizabeth Thesher, DeWitt Wesley	LA	99	Chicago	
Thal, Olga Elizabeth Thatcher, DeWitt Wesley Thayer, Cleaver Thayer, Helen Theyer, Thaxter Crugier, A.I	SS		Evanston	
Thayer, Helen			'II- Cal	
Thayer, Helen Thayer, Thaxter Crugier, A.I.	Lb		Vacaville, Cal.	
Thayer, Thaxter Crugter, 1911 (Univ. Wisconsin) 1911 Theilen, Margaret Katherine Theilen, Albert Peter Victor	LA	101	Camp Point	
Margaret Katherine	CE	6	Batavia	•
Theilen, Margaret Rather Victor	A		Ramsey	
	Mus		Monticello	
	Agr		Urbana	
Thielke, Madder Royce Thomas, Abner Royce	Md		Argenta	1
Thomas, Abner Royce Thomas, Charles Fredrick Thomas, Clair Joel Thomas, Emil Warren Thomas, Glen Herbert Thomas, John Mifflin	Agr		LaHarpe	,
Thomas, Chair Joel	ME	24	Woodstock	
Thomas, Clair Warren	A sp		Waterville, Kan.	
Thomas, Clan Herbert	ME	77	Vincennes, Ind.	
Thomas, John Mifflin	ME		Newport, 1nd.	
Thomas, John Mifflin Thomas, Leslie Norwood Thomas, Lyle Thomas, Marie Anna Thomas, Maurice Loyd Thomas, Macrice Loyd	LA	64	Lewiston	
Thomas, Lesite 1	LA	31	CAN LOSE	
Thomas, Lyic Anna	EE	4	Ct I Mus. M.O.	
Thomas, Maurice Lovd	Agr sp	81	Letart, W. Va.	
Thomas, Malvin	LA LA		I I e hana	
Thomas, Melvin Thomas, Polly Elizabeth Thomas, Ralph Raymond Thomas, Robert Ellsworth Thomas, Victor Christian Thomason, Jay Francis Thompson, Alfred Franklin	EE		St. Louis, Mo.	
Thomas, Tolly Raymond	CE	5	0 Rockford	
Thomas, Robert Ellsworth	Age sh	,	Chicago	
Thomas, Robert Christian	Agr sp Agr (S	(25)	2 Chicago	
Thomas, Victor Francis	EĒ.	,,,,	Springfield	
Thomason, Jay Franklin Thompson, Alfred Franklin Charles Henry	ČE	8	1 Chicago Mille	
Thompson, Charles Henry	HSLA	6	4 Carrier Mills	
Thompson, Eleta	SS	5	91 Pinckneyville	
Thompson, Fleta Thompson, Francis	EE		Anna	
	BLA	(55) 10	061 Harvey	
	EE		76 Chicago	
Thompson, Harold Earle Thompson, Harold Earle	22	1.	521 Champaign	
	Agr ((22	231 Springhein	
Thompson, John Charles	LA	557	Saybrook	
Thompson, Lee E	HSL	A	Chicago	
Thompson, John Charles Thompson, Lee E Thompson, Lillian Maud	Agr	-	Springfield	
Thompson, Orin Griswold Thompson, Orlando Stephen	Agr		Harvey	
	Mus		Urbana Ind	
Thompson, Ruth Etta Thompson, Ruth Etta Arthur William	ΔF		67 Plymouth, Ind.	Ara.
Thomson, Arthur William	EE ((SS)	67 Buenos Aires, 7 Chicago	
Thompson, Arthur William Thomson, Charles Sarmiento	SS	/	7 Chicago	
Thorndike, Clara Louise	33			
I dollare,				

Thomas Possis IIIIaan	ME	201	D
Thorne, Frank Hilton	ME	$35\frac{1}{2}$	Berwyn
Thorne, Laurence Emerson	Agr	33	Huntington, Ind.
Thorne, Mabel Elizabeth Thorpe, William Frederick	S	103	Huntington, Ind.
Thorpe, William Frederick	Agr	13	Chicago
Thrasher, Marvin Allen	SS	273	Salem
Threlkeld, Clyde Hollis	BLA (SS)	94	Decatur
Thurston, Henry Winfred, Ir.	Agr	311	New Milford, N. J.
Thurston, Henry Winfred, Jr. Tibbits, Douglas Deforest	Agr	78±	Urbana
Tiedemann, Edwin Wylde	Agr	25	St. Louis, Mo.
Tillotson, Bess Mae	HSS	23	Roswell, N. Mex.
Tilleon Aethur Edward	ChE		Naperville
Tillson, Arthur Edward Tilton, Kenneth Dale	ME	75	Moline
Tilton, Kenneth Dale			
Tilton, Leon Deming	Agr	40	E. St. Louis
Tilton, Walter Joseph	Ch		Fairmount
Timmins, Henry A Timmis, Alice Maria	Agr sp	$15\frac{1}{2}$	Chicago
Timmis, Alice Maria	HSAgr	97	Chicago
Tinkey, George Otto	EE		Decatur
Tinzmann, Erich Ludwig	REE	63 1	Chicago
Titus, George Leiner Tobin, Elmer Clayton Todd, Ethel	BLA	99	Sullivan
Tobin, Elmer Clayton	EE		Elgin
Todd, Ethel	LA	30	LaHarpe
Tolmie, Thomas William	AE	•	Rockford
Tomokins Carrie E	La sp	12	Downs
Tompkins, Carrie E Tompkins, Elmer Judson	ME	12	Eagle Grove, Ia.
Tompkins, Rexford De, Ph.G., 1908		141	Mt. Sterling
		141	Mi. Sterning
Tong, Harry Yukit Tong, Yung Tso	MSE	23	Shanghai, China Tientsin, China
Tong, Yung Tso	MSE	603	Tientsin, China
Tonnesen, Harvey Allen	ME	37	Ishpeming, Mich.
Torgerson, Edward Fritchoff	Agr	76 1	Chicago
Tornquist, Alpha Caroline	LA		Champaign
Torrance, Mary, A.B. (Hanover			7
Coll.) 1900	Lb	45	Lexington
Torrence, Howard John, A.B. (Mon-			
mouth Coll.) 1910	SS	113	Monmouth
Towndrow Harry Allen	Lsp		Moline
Towndrow, Harry Allen Townsend, Rollin Davis	Agr sp		Maquon
Towson, Irene	LA	34	Macon
Tening Marcharita Madalaina	IA		Ottawa
Trainor, Margherita Madeleine Trantow, Walter Weisse	LA CE	16	
Trantow, watter weisse	CE	401	Batavia
Treadway, Oswell Garland Treischel, Chester	SS _	68 1	Macomb
Treischel, Chester	CerE		Kankakee
Tressel, Harry Shults	LA	70	Terre Haute, Ind.
Trevellyan, Helen Elizabeth	Mus		Chicago
Triggs, Leon Alvin	BLA (SS)	631	Elgin
Trimble, Eliza Frances	HSAgr sp		Evansville, Ind.
Tripp, Belle Chamberlin	Mus	26	Belvidere
Tripp, Jennie Louise	HSAgr HSLA	66	Belvidere
Tritt. Frances Irene	HSLA	24	Bloomington
Tripp, Belle Chamberlin Tripp, Jennie Louise Tritt, Frances Irene Tritt, Helen Lucille			
Troeger Phillip Theodore	HSLA	14	Bloomington
riocges, rinnip rincodore	HSLA	14	Bloomington Chicago
Trost Frances Helen	Agr		Chicago
Trost, Frances Helen	Agr LA	14 67	Chicago Urb ana
Troeger, Phillip Theodore Trost, Frances Helen Trost, Opal Winifred Trost Oliver John	Agr LA HSAgr		Chicago Urbana Urbana
Troster, Oliver John	Agr LA HSAgr Agr	67	Chicago Urbana Urbana Bellflowe r
Troster, Oliver John	Agr LA HSAgr Agr ME	67	Chicago Urbana Urbana Bellflower South Bend, Ind.
Troster, Oliver John	Agr LA HSAgr Agr ME LA	67 36 20	Chicago Urbana Urbana Bellflower South Bend, Ind. Green Valley
Troster, Oliver John Trowbridge, Charles Edgar Trowbridge, Mary Luella Trowbridge, Tessie Elizabeth	Agr LA HSAgr Agr ME LA HSAgr	67 36 20 97 1	Chicago Urbana Urbana Bellflower South Bend, Ind. Green Valley Green Valley
Troster, Oliver John Trowbridge, Charles Edgar Trowbridge, Mary Luella Trowbridge, Tessie Elizabeth	Agr LA HSAgr Agr ME LA	67 36 20	Chicago Urbana Urbana Bellflower South Bend, Ind. Green Valley
Troster, Oliver John Trowbridge, Charles Edgar Trowbridge, Mary Luella Trowbridge, Tessie Elizabeth	Agr LA HSAgr Agr ME LA HSAgr ME	67 36 20 97 1	Chicago Urbana Urbana Bellflower South Bend, Ind. Green Valley Green Valley
Troster, Oliver John Trowbridge, Charles Edgar Trowbridge, Mary Luella Trowbridge, Tessie Elizabeth Troxel, Floyd Elsworth Troy, Mary Zeliaette, A.B. (Univ. Alabama) 1912	Agr LA HSAgr Agr ME LA HSAgr ME	67 36 20 97 1	Chicago Urbana Urbana Beliflower South Bend, Ind. Green Valley Minonk Tuscaloosa, Ala.
Troster, Oliver John Trowbridge, Charles Edgar Trowbridge, Mary Luella Trowbridge, Tessie Elizabeth Troxel, Floyd Elsworth Troy, Mary Zeliaette, A.B. (Univ. Alabama) 1912 Tsow, Min	Agr LA HSAgr Agr ME LA HSAgr ME	36 20 97 1 4	Chicago Urbana Urbana Beliflower South Bend, Ind. Green Valley Minonk Tuscaloosa, Ala.
Troster, Oliver John Trowbridge, Charles Edgar Trowbridge, Mary Luella Trowbridge, Tessie Elizabeth Troxel, Floyd Elsworth Troy, Mary Zeliaette, A.B. (Univ. Alabama) 1912 Tsow, Min Tucker, Phoebe Caroline	Agr LA HSAgr Agr ME LA HSAgr ME	36 20 97 1 4	Chicago Urbana Urbana Bellflower South Bend, Ind. Green Valley Minonk
Troster, Oliver John Trowbridge, Charles Edgar Trowbridge, Mary Luella Trowbridge, Tessie Elizabeth Troxel, Floyd Elsworth Troy, Mary Zeliaette, A.B. (Univ. Alabama) 1912 Tsow, Min Tucker, Phoebe Caroline Tucker, Stephen Kenneth	Agr LA HSAgr Agr ME LA HSAgr ME Lb MnE	67 36 20 97 1	Chicago Urbana Urbana Bellflower South Bend, Ind. Green Valley Minonh Tuscaloosa, Ala. Owongtung, China Roseville
Troster, Oliver John Trowbridge, Charles Edgar Trowbridge, Mary Luella Trowbridge, Tessie Elizabeth Troxel, Floyd Elsworth Troy, Mary Zeliaette, A.B. (Univ. Alabama) 1912 Tsow, Min Tucker, Phoebe Caroline Tucker, Stephen Kenneth	Agr LA HSAgr Agr ME LA HSAgr ME Lb MnE LA MnE LA	36 20 97 1 4	Chicago Urbana Urbana Beliflower South Bend, Ind. Green Valley Minonh Tuscaloosa, Ala. Owongtung, China Roseville N. Anderson, Ind.
Troster, Oliver John Trowbridge, Charles Edgar Trowbridge, Mary Luella Trowbridge, Tessie Elizabeth Troxel, Floyd Elsworth Troy, Mary Zeliaette, A.B. (Univ. Alabama) 1912 Tsow, Min Tucker, Phoebe Caroline Tucker, Stephen Kenneth	Agr LA HSAgr Agr LA LA HSAgr ME Lb MnE LA Md EE	67 36 20 97 4	Chicago Urbana Urbana Bellflower South Bend, Ind. Green Valley Minonh Tuscaloosa, Ala. Owongiung, China Roseville N. Anderson, Ind. Canton
Troster, Oliver John Trowbridge, Charles Edgar Trowbridge, Mary Luella Trowbridge, Tessie Elizabeth Troxel, Floyd Elsworth Troy, Mary Zeliaette, A.B. (Univ. Alabama) 1912 Tsow, Min Tucker, Phoebe Caroline Tucker, Stephen Kenneth Tuell, Wallace Gerry Turlay, Annie Marie	Agr LA HSAgr Agr ME LA HSAgr ME Lb MnE LA Md ELA	67 36 20 97 4 98	Chicago Urbana Urbana Bellflower South Bend, Ind. Green Valley Minonh Tuscaloosa, Ala. Owongtung, China Roseville N. Anderson, Ind. Canton Clinton
Troster, Oliver John Trowbridge, Charles Edgar Trowbridge, Mary Luella Trowbridge, Tessie Elizabeth Troxel, Floyd Elsworth Troy, Mary Zeliaette, A.B. (Univ. Alabama) 1912 Tsow, Min Tucker, Phoebe Caroline Tucker, Stephen Kenneth	Agr LA HSAgr Agr LA LA HSAgr ME Lb MnE LA Md EE	67 36 20 97 4	Chicago Urbana Urbana Bellflower South Bend, Ind. Green Valley Minonh Tuscaloosa, Ala. Owongiung, China Roseville N. Anderson, Ind. Canton

m v 1 v	- 4		
Turner, Bessie Irene	LA	61	Loda
Turner, David Adolf	Agr sp	53 1	Chicago
Turner, Frank	Agr	69	DuQuoin
Turner, Frank Turner, Rhodolphus Kibbe	Agr	65	Butler
Turner, Reuben Raymond	Ch	93	
Turner, Reuben Raymond		у3	Taylorville
Turner, Samuel Rutherford Turner, Walter Carlyle	L_{\perp}		Virginia
Turner, Walter Carlyle	BLA	48	Atlanta
Turnock, Llewellyn Alvin	\boldsymbol{A}	33	Elkhart, Ind.
Tuthill John Kline	EE	78	LeRoy
Turnock, Llewellyn Alvin Tuthill, John Kline Tyler, James Hersey Tylski, Walter William			
Tyler, James Hersey	CE	17	Champaign
Tylski, Walter William	EE_{-}		Chicago
Udinsky, Philip Ullrich, William	ChE		Jersey City, N. J.
Ullrich, William	SS	8	New Baden
Underhill, Harold Wertz	A	108	Onawa, Ia.
	ME		
Uphaus, Bruce Richard		41	Chicago
Urch, Melvin Case	Agr sp	241	Muskegon, Mich.
Valentine, Howard DeWitt	ChE	104	Chicago
Van Buskirk, Fay Carroll	ME		Mt. Čarroll
Van Buskirk Roy Harold	Agr sp	31	Mt. Carroll
VanBuskirk, Roy Harold Van Cleve, Mildred May	Cyr sp		
van Cleve, Mildred May	2	72	Urbana
Van de Mark, Walter Jacob Van den Boom, Gerry Christopher	S Ch		Waukegan
Van den Boom, Gerry Christopher	ME	4	Quincy
Vandercock, Henry Peirce	Agr	701	Lombard
Van Dougen John La Port	ĈË	,,,	Greenville
Van Deusen, John LeRoy Van Doren, Frank Eugene Van Doren, Mark Albert			
Van Doren, Frank Eugene	Agr	661	Urbana
Van Doren, Mark Albert	LA	68	Urbana
Van Frank, Elliott Daniel	\boldsymbol{A}		Danville
Van Natter Francis Marian	Md		Muncie, Ind.
Van Natter, Planeis marion		42	
van Petten, Oliver William	CE	42	Champaign
Vansant, Rodman Fleming	Agr sp		Chicago
Van Petten, Oliver William Vansant, Rodman Fleming Vansant, William Lawrence	ME	29	Chicago
Vargas, Hippolyto da Silva	LA		Luneira, S. Paulo,
vargas, impporyto da biiva	2211		Brazil
			Chinan
Vater, Margaret	HSAgr sp	12	Chicago
Vauble, William Carl	HSAgr sp Agr (SS)	107	Chicago Washington
Vauble, William Carl	Agr (SS)	107	Washington
Vauble, William Carl	Agr (SS) BLA		Washington Amboy
Vauble, William Carl	Agr (SS) BLA Mus	107 32	Washington Amboy Urbana
Vauble, William Carl Vaughan, Glenn Poland Vaughn, Myra Velzy, Charles R	Agr (SS) BLA Mus ME	107 32 75	Washington Amboy Urbana Harvey
Vauble, William Carl Vaughan, Glenn Poland Vaughn, Myra Velzy, Charles R Venard, William John	Agr (SS) BLA Mus ME BLA	107 32 75 30	Washington Amboy Urbana Harvey
Vauble, William Carl Vaughan, Glenn Poland Vaughn, Myra Velzy, Charles R Venard, William John Verlie, Emil Josoph	Agr (SS) BLA Mus ME BLA L	107 32 75 30 88	Washington Amboy Urbana Harvey
Vauble, William Carl Vaughan, Glenn Poland Vaughn, Myra Velzy, Charles R Venard, William John Verlie, Emil Josoph	Agr (SS) BLA Mus ME BLA L	107 32 75 30 88	Washington Amboy Urbana Harvey North Adams, Mass. E. St. Louis
Vauble, William Carl Vaughan, Glenn Poland Vaughn, Myra Velzy, Charles R Venard, William John Verlie, Emil Josoph	Agr (SS) BLA Mus ME BLA L Agr	107 32 75 30 88 27½	Washington Amboy Urbana Harvey North Adams, Mass. E. St. Louis La Grange
Vauble, William Carl Vaughan, Glenn Poland Vaughn, Myra Velzy, Charles R Venard, William John Verlie, Emil Joseph Vail, Nathaniel Smith Vail, Ralph Hoyt	Agr (SS) BLA Mus ME BLA L Agr Agr	107 32 75 30 88	Washington Amboy Urbana Harvey North Adams, Mess. E. St. Louis La Grange La Grange
Vauble, William Carl Vaughan, Glenn Poland Vaughn, Myra Velzy, Charles R Venard, William John Verlie, Emil Joseph Vail, Nathaniel Smith Vail, Ralph Hoyt Vibelius, Siegfred Nathaniel	Agr (SS) BLA Mus ME BLA L Agr Agr AE	107 32 75 30 88 27½	Washington Amboy Urbana Harvey North Adams, Mess. E. St. Louis La Grange La Grange Joliet
Vauble, William Carl Vaughan, Glenn Poland Vaughn, Myra Velzy, Charles R Venard, William John Verlie, Emil Joseph Vail, Nathaniel Smith Vail, Ralph Hoyt Vibelius, Siegfred Nathaniel Vincent, Alice Mae	Agr (SS) BLA Mus ME BLA L Agr Agr AE HSAgr	107 32 75 30 88 27½ 64	Washington Amboy Urbana Harvey North Adams, Mess. E. St. Louis La Grange La Grange Jolict Mazon
Vauble, William Carl Vaughan, Glenn Poland Vaughn, Myra Velzy, Charles R Venard, William John Verlie, Emil Joseph Vail, Nathaniel Smith Vail, Ralph Hoyt Vibelius, Siegfred Nathaniel Vincent, Alice Mae	Agr (SS) BLA Mus ME BLA L Agr Agr AE	107 32 75 30 88 27½ 64	Washington Amboy Urbana Harvey North Adams, Mess. E. St. Louis La Grange La Grange Jolict Mazon St. Johns, Ore.
Vauble, William Carl Vaughan, Glenn Poland Vaughn, Myra Velzy, Charles R Venard, William John Verlie, Emil Joseph Vail, Nathaniel Smith Vail, Ralph Hoyt Vibelius, Siegfred Nathaniel Vincent, Alice Mae	Agr (SS) BLA Mus ME BLA L Agr Agr AE HSAgr CE	107 32 75 30 88 27½ 64	Washington Amboy Urbana Harvey North Adams, Mess. E. St. Louis La Grange La Grange Jolict Mazon St. Johns, Ore.
Vauble, William Carl Vaughan, Glenn Poland Vaughn, Myra Velzy, Charles R Venard, William John Verlie, Emil Joseph Vail, Nathaniel Smith Vail, Ralph Hoyt Vibelius, Siegfred Nathaniel Vincent, Alice Mae	Agr (SS) BLA Mus BLA L Agr Agr AE HSAgr CE Agr	107 32 75 30 88 27½ 64	Washington Amboy Urbana Harvey North Adams, Mess. E. St. Louis La Grange La Grange Jolict Mazon St. Johns, Ore. Virginia
Vauble, William Carl Vaughan, Glenn Poland Vaughn, Myra Velzy, Charles R Venard, William John Verlie, Emil Joseph Vail, Nathaniel Smith Vail, Ralph Hoyt Vibelius, Siegfred Nathaniel Vincent, Alice Mae Vincent, Chester Andrus Virgin, Eli Horace Voigt. Herbert Louis	Agr (SS) BLA Mus ME BLA L Agr Agr Agr AC HSAgr CE Agr	107 32 75 30 88 27½ 64 109½ 45 74	Washington Amboy Urbana Harvey North Adams, Mess. E. St. Louis La Grange La Grange Joliet Mazon St. Johns, Ore. Virginia Chicago
Vauble, William Carl Vaughan, Glenn Poland Vaughn, Myra Velzy, Charles R Venard, William John Verlie, Emil Joseph Vail, Nathaniel Smith Vail, Ralph Hoyt Vibelius, Siegfred Nathaniel Vincent, Alice Mae Vincent, Chester Andrus Virgin, Eli Horace Voigt, Herbert Louis Volk, Alven Claude	Agr (SS) BLA Mus ME BLA L Agr AGF AE HSAgr CE Agr CE CE CE	107 32 75 30 88 27½ 64 109½ 45 74 30	Washington Amboy Urbana Harvey North Adams, Mess. E. St. Louis La Grange La Grange Jolict Mazon St. Johns, Ore. Virginia Chicago St. Louis, Mo.
Vauble, William Carl Vaughan, Glenn Poland Vaughn, Myra Velzy, Charles R Venard, William John Verlie, Emil Joseph Vail, Nathaniel Smith Vail, Ralph Hoyt Vibelius, Siegfred Nathaniel Vincent, Alice Mae Vincent, Chester Andrus Virgin, Eli Horace Voigt, Herbert Louis Volk, Alven Claude Von Valtier, Ralph Paul	Agr (SS) BLA Mus BLA L Agr Agr AE HSAgr CE CE CE ME	107 32 75 30 88 27½ 64 109½ 45 74	Washington Amboy Urbana Harvey North Adams, Mess. E. St. Louis La Grange La Grange Joliet Mazon St. Johns, Ore. Virginia Chicago St. Louis, Mo. Chicago
Vauble, William Carl Vaughan, Glenn Poland Vaughn, Myra Velzy, Charles R Venard, William John Verlie, Emil Joseph Vail, Nathaniel Smith Vail, Ralph Hoyt Vibelius, Siegfred Nathaniel Vincent, Alice Mae Vincent, Chester Andrus Virgin, Eli Horace Voigt, Herbert Louis Volk, Alven Claude Von Valtier, Ralph Paul	Agr (SS) BLA Mus ME BLA L Agr AGr AE HSAgr CE Agr CE CE CE CE CE CE EE	107 32 75 30 88 271 64 1091 45 74 30 12	Washington Amboy Urbana Harvey North Adams, Mess. E. St. Louis La Grange La Grange Joliet Mazon St. Johns, Ore. Virginia Chicago St. Louis, Mo. Chicago Upper Alton
Vauble, William Carl Vaughan, Glenn Poland Vaughn, Myra Velzy, Charles R Venard, William John Verlie, Emil Joseph Vail, Nathaniel Smith Vail, Ralph Hoyt Vibelius, Siegfred Nathaniel Vincent, Alice Mae Vincent, Chester Andrus Virgin, Eli Horace Voigt, Herbert Louis Volk, Alven Claude Von Valtier, Ralph Paul	Agr (SS) BLA Mus BLA L Agr Agr AE HSAgr CE CE CE ME	107 32 75 30 88 27½ 64 109½ 45 74 30	Washington Amboy Urbana Harvey North Adams, Mess. E. St. Louis La Grange La Grange Joliet Mazon St. Johns, Ore. Virginia Chicago St. Louis, Mo. Chicago
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Vauble, William Carl Vaughan, Glenn Poland Vaughan, Myra Velzy, Charles R Venard, William John Verlie, Emil Joseph Vail, Nathaniel Smith Vail, Ralph Hoyt Vibelius, Siegfred Nathaniel Vincent, Alice Mae Vincent, Chester Andrus Virgin, Eli Horace Voigt, Herbert Louis Volk, Alven Claude Von Valtier, Ralph Paul Voorhees, Lawrence Elmer Vosburgh, William Richardson Voss, Elizabeth Ann Wadsworth, Winthrop Mattison Wadsworth, Winthrop Mattison Wagenknight, Oscar Chamberlain Waggoner, Arthur Melinger Waggoner, Karl Marshall Waggoner, William Eugene Waggoner, Alexander	Agr (SS) BLA L Agr AE HSAgr AE CE CE CE CE BLA HSAgr AE A(SS) A SS LA BLA L L AGR BLA L A L A L A BLA L L A BLA L L A BLA L L A BLA L	107 32 75 30 88 27 45 74 30 12 103 81 99 106 21 22 76 32 76 32	Washington Amboy Urbana Harvey North Adams, Mess. E. St. Louis La Grange La Grange Joliet Mazon St. Johns, Ore. Virginia Chicago St. Louis, Mo. Chicago St. Louis, Mo. Chicago Upper Alton Oak Park Champaign Minneapolis, Minn. La Grange Decatur Decatur Decatur Rankin Chicago Chicago Chicago Princeton
Vauble, William Carl Vaughan, Glenn Poland Vaughan, Myra Velzy, Charles R Venard, William John Verlie, Emil Joseph Vail, Nathaniel Smith Vail, Ralph Hoyt Vibelius, Siegfred Nathaniel Vincent, Alice Mae Vincent, Chester Andrus Virgin, Eli Horace Voigt, Herbert Louis Volk, Alven Claude Von Valtier, Ralph Paul Voorhees, Lawrence Elmer Vosburgh, William Richardson Voss, Elizabeth Ann Wadsworth, Winthrop Mattison Wadsworth, Winthrop Mattison Wagenknight, Oscar Chamberlain Waggoner, Arthur Melinger Waggoner, Karl Marshall Waggoner, William Eugene Waggoner, Alexander	Agr (SS) BLA L Agr AE HSAgr AE CE CE CE CE BLA HSAgr AE A(SS) A SS LA BLA L L AGR BLA L A L A L A BLA L L A BLA L L A BLA L L A BLA L	107 32 75 30 88 27 27 64 109 2 45 74 30 12 103 81 99 106	Washington Amboy Urbana Harvey North Adams, Mass. E. St. Louis La Grange La Grange Jolict Mazon St. Johns, Ore. Virginia Chicago Upper Alton Oak Park Champaign Minneapolis, Minn. La Grange Decatur Rankin Chicago Chicago
Vauble, William Carl Vaughan, Glenn Poland Vaughan, Myra Velzy, Charles R Venard, William John Verlie, Emil Joseph Vail, Nathaniel Smith Vail, Ralph Hoyt Vibelius, Siegfred Nathaniel Vincent, Alice Mae Vincent, Chester Andrus Virgin, Eli Horace Voigt, Herbert Louis Volk, Alven Claude Von Valtier, Ralph Paul Voorhees, Lawrence Elmer Vosburgh, William Richardson Voss, Elizabeth Ann Wadsworth, Winthrop Mattison Wagenknight, Oscar Chamberlain Waggoner, Arthur Melinger Waggoner, Arthur Melinger Waggoner, Milliam Eugene Wagner, Alexander Wagner, Alexander Wagner, Alexander Wagner, Moller William Wagner, Moller William Wagner, Percy Evan	Agr (SS) BLA L Agr AE HSAgr AE CE CE CE CE BLA HSAgr AE A(SS) A SS LA BLA L L AGR BLA L A L A L A BLA L L A BLA L L A BLA L L A BLA L	107 32 75 30 88 27 45 74 30 12 103 81 99 106 21 22 76 32 76 32	Washington Amboy Urbana Harvey North Adams, Mess. E. St. Louis La Grange La Grange Joliet Mazon St. Johns, Ore. Virginia Chicago St. Louis, Mo. Chicago St. Louis, Mo. Chicago Ipper Alton Oak Park Champaign Minneapolis, Minn. La Grange Decatur Rankin Chicago Chicago Cricago Cricago Princeton Chicago
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Vauble, William Carl Vaughan, Glenn Poland Vaughan, Myra Velzy, Charles R Venard, William John Verlie, Emil Joseph Vail, Nathaniel Smith Vail, Ralph Hoyt Vibelius, Siegfred Nathaniel Vincent, Alice Mae Vincent, Chester Andrus Virgin, Eli Horace Voigt, Herbert Louis Volk, Alven Claude Von Valtier, Ralph Paul Voorhees, Lawrence Elmer Vosburgh, William Richardson Voss, Elizabeth Ann Wadsworth, Winthrop Mattison Wagenknight, Oscar Chamberlain Waggoner, Arthur Melinger Waggoner, Arthur Melinger Waggoner, Alexander Wagner, Alexander Wagner, Alexander Wagner, Alexander Wagner, Moller William Wagner, Percy Evan Wagner, Ralph Russell Wagner, Ralph Russell Wagner, William Andrew	Agr (SS) BLA L Agr AE HSAgr CE Agr CE CE CE EE BLA HSAgr AE SS LA BLA L Cer E CE C	107 32 75 30 88 27 45 74 30 12 103 81 99 106 21 22 76 32 76 32	Washington Amboy Urbana Harvey North Adams, Mess. E. St. Louis La Grange La Grange Joliet Mazon St. Johns, Ore. Virginia Chicago St. Louis, Mo. Chicago St. Louis, Mo. Chicago Upper Alton Oak Park Champaign Minneapolis, Minn. La Grange Decatur Decatur Rankin Chicago Chicago Chicago Chicago Chicago Chicago Chicago Chicago Chicago Contiacago Contiac Champaign
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Vauble, William Carl Vaughan, Glenn Poland Vaughan, Myra Velzy, Charles R Venard, William John Verlie, Emil Joseph Vail, Nathaniel Smith Vail, Ralph Hoyt Vibelius, Siegfred Nathaniel Vincent, Alice Mae Vincent, Alice Mae Vincent, Chester Andrus Virgin, Eli Horace Voigt, Herbert Louis Volk, Alven Claude Von Valtier, Ralph Paul Voorhees, Lawrence Elmer Vosburgh, William Richardson Voss, Elizabeth Ann Wadsworth, Winthrop Mattison Wagenknight, Oscar Chamberlain Waggoner, Arthur Melinger Waggoner, Karl Marshall Waggoner, Karl Marshall Waggoner, Alexander Wagner, Alexander Wagner, Alexander Wagner, Alexander Wagner, Percy Evan Wagner, Ralph Russell Wagner, William Andrew Wahl, Leo Jacob Wainwright, James Butler	Agr (SS) BLA L Agr AE AGr AE BEA AE AE CE CE BLA AE AE AE CE ABLA A CE AE CE CE BLA AC AE AE CE CE CE BLA AC CE CE BLA AC CE CE CE BLA AC CE CE CE CE BLA AC CE CE CE CE CE CE EE BLA AC CE	107 32 75 30 88 27 45 74 30 12 103 81 99 106 21 32 76 32 76 32 32 36 35	Washington Amboy Urbana Harvey North Adams, Mess. E. St. Louis La Grange La Grange Joliet Mazon St. Johns, Ore. Virginia Chicago St. Louis, Mo. Chicago St. Louis, Mo. Chicago Upper Alton Oak Park Champaign Minneapolis, Minn. La Grange Decatur Decatur Decatur Rankin Chicago Princeton Chicago Pontiac Champaign Sterling Winchester
Vauble, William Carl Vaughan, Glenn Poland Vaughan, Glenn Poland Vaughn, Myra Velzy, Charles R Venard, William John Verlie, Emil Joseph Vail, Nathaniel Smith Vail, Ralph Hoyt Vibelius, Siegfred Nathaniel Vincent, Alice Mae Vincent, Chester Andrus Virgin, Eli Horace Voigt, Herbert Louis Volk, Alven Claude Von Valtier, Ralph Paul Voorhees, Lawrence Elmer Vosburgh, William Richardson Voss, Elizabeth Ann Wadsworth, Winthrop Mattison Wagenknight, Oscar Chamberlain Waggoner, Arthur Melinger Waggor, Alima Eugene Wagner, Alexander Wagner, Alvin Louis Wagner, Moller William Wagner, Percy Evan Wagner, Ralph Russell	Agr (SS) BLA L Agr AGE HSAgr CE CE CE EE BLA HSAgr AE EC EL L CE L L CE L L CE L L CE L CE	107 32 75 30 88 27 45 74 30 12 103 81 99 106 21 32 32 32 36	Washington Amboy Urbana Harvey North Adams, Mess. E. St. Louis La Grange La Grange Joliet Mazon St. Johns, Ore. Virginia Chicago St. Louis, Mo. Chicago Upper Alton Oak Park Champaign Minneapolis, Minn. La Grange Decatur Rankin Chicago Chicago Princeton Chicago Princeton Chicago Pontiac Champaign Sterling

Walduck, Charles Louis	Cer	120	Chicago
Walker Edna Wells	LA		Chicago
Walker, George William Walker, James Lynd Walker, Jennie Grace Walker, John S Walker, Walter	Agr	5	Mackinaw
Walker, James Lynd	LA		Moline
Walker, Jennie Grace	LA SS	8	Cicero
Walker, John S	A	35	Aurora
Walker, Walter	L		Chicago
Walkerly, Dorothy Keziah	HSLA (S.	S) 8	Champaign
Walkerly, Victoria Pamilla	HSLA (SS	68 (3	Champaign
Walkerly, Dorothy Keziah Walkerly, Victoria Pamilla Wallace, Edgar Dearborne Wallace, Edward	HSLA (S. HSLA (SS BLA		Chicago
Wallace, Edward	CE	108	Chicago
	LA		Homer
Wallace, Mabel Clare	HSAgr	92 105	LaGrange
Wallace, Wellington James Hamilton	A	105	Monticello, Mo.
Wallace, Mabel Clare Wallace, Wellington James Hamilton Wallaje, Stanley Tiffin Waller, Richard Valentine	MnE	44	Paris
Waller, Richard Valentine	EE EE	$1\frac{1}{2}$	
Walraven, Wesley Burnham	LE 1an ab		Centralia
Walser, Frank Emil	Agr sp A	50	Brooklyn, N. Y. Beach, N. D.
Walters, Harvey Henry Walters, Jesse Noble Walters, Prentice Therman Walton, James Kelley Waltwest Edward Henry	Agr	59 77	Carlisle, Ind.
Walters, Jesse Noble	LA LA	61	Macomb
Walton James Kelley	Agr (SS)	22	Anna
Walworth, Edward Harvey	Agr (33)	1251	
Wang, Te Chang	Agr	1232	Soochow, China
Wansbrough, John Edgar	L ,	9	Peoria
Ward, Amy	HSLA	33	El Paso
Ward, Francis Hugh	ChE	23	Rockford
Ward, Mamie Lawrence	LA	34	Chicago
Ward, Mamie Lawrence Ward, Madge Virginia Ward, Philip Henry	LA	59	Chicago
Ward, Philip Henry	L BLA	88	Sterling
Warheld, Vernon Huff	BLA	65	Urbana
Warinner, Charles Willis	ME	76	Urbana
Warinner, Charles Willis Warmolts, Lambertus, Jr. Warnock, Maude May	CE	21	Oregon
Warnock, Maude May	LA sp	6	Urbana
	BLA	23	Belvidere
Warren, Frank Baker Warren, Henry Russell Waters, Enos	CE	75	Paw Paw
Warren, Henry Russell	Agr	43	Belvidere
Waters, Enos	Agr SS	67	Detroit, Mich.
waters, Orley Morton	22		Belle Rive
Watkins, Ralph Smalley	ME USL 4		Sheldon
Watson, Altha Jane Watson, Chauncey Brown	HSLA	1221	Topeka, Kan
Watson, Chauncey Brown	Agr L	1231	De Kalb Farmer City
Watson, Grover W	LA	28 37	Champaign
Watson, Jane Coulson Watson, John Wasley	Agr	31	De Kalb
Watson, Jane Coulson Watson, John Wesley Watson, Lelia Elta	HSLA		Champaign
	55	3	Champaign
Watson, Perley Melvin Watson, Warner Allison Watson, William Sumner Watts, Claude Harrison Watts, Ethel Frances	SS SS	8	Champaign
Watson Warner Allison	Agr	٠	Macomb
Watson William Sumner	ĒĒ	102 ±	Ottawa
Watts, Claude Harrison	BLA	97	Saunemin
Watts, Ethel Frances	Mus	17	Champaign
Watts, George Raymond	EE	9	Lawrenceville
Watts, George Raymond Watts, George William Way, Mildred Ruth	ME	36	Chicago
Way, Mildred Ruth	LA	102	Mazeppa, Minn.
Webb, Alonzo C, Jr.	\boldsymbol{A}	32	Nashville, Tenn.
Webb, Rayburn Stokes	\boldsymbol{A}	$78\frac{1}{2}$	E. St. Louis
Webber, Harry Edwin	AE	37	Chicago
Webber, Harry Turnell	Cer		Danville
Webb, Alonzo C, Jr. Webb, Rayburn Stokes Webber, Harry Edwin Webber, Harry Turnell Webber, Helen Waller	LA	34	Urbana
Webber, Margaret Weber, Gertrude T	LA	57	Danville
Weber, Gertrude T	S CE		Olney
Webster, Henry Clayton	DI 1	66	Urbana
Wehrman, Carl Olin Wehrman, Meta	BLA	331	
Weilann Eve Sorah	Mus sp HSLA	41	Ogden Decatur
Weilepp, Eva Sarah	HOLA	41	Decuius

Waterbarn Flore Tone	TJC 1 am		Rushville
Weinberg, Flora Jane	HSAgr SS		Bunker Hill
Weiner, Joseph	AE	8 36	Rockford
Weingartner, Clyde Frederick	S	95	
Weis, Herman William	A	139	Holyoke, Mass.
Weisfeld, Leo Harold			Chicago
Weitz, Henry John Conrad Welch, John Maurice	Agr sp	241	Morris
Welch, John Maurice	ChE	70	La Salle
Wilkins, Raymond Harvey Wellman, Orpha May, A.B., 1911	Agr SS	90 1	Champaign .
Wellman, Orpha May, A.B., 1911	22		Champaign
Wells, Edward Roy	CE	75	Geneva
Wells, Fred Sheaff	ME	39	Aurora
Wells, Olive L	SS	7 1	Winchester
Welsh, Marjorie Cecilia	HSLA	31	Bradford
Welsh, Roger Thomas	Agr	33	Rockford
Welton, Floy Evelyn Welty, Wallace Moorhead	SS	4	Marion
Welty, Wallace Moorhead	Agr	63	Chicago
deWerff Emil Christian	Agr sh		Farina
deWerff, Emil Christian de Werff, Henry August Wessels, Vera Gretchen	Agr sp(SS)	105	Farina
Woodle Very Cretchen	LA	100	Quincy
West House	EE	79	Pecksburg, Ind.
West, Harrison	CE	75	Managed
Wescott, Clifford Harper	BLA	13	Maywood
Westlund, Emil Hilmer			Chicago
Westlund, Emil Hilmer Weydell, Arthur Theodore Whaite, Charles Miner Wham, Benjamin	ME	98	Chicago
Whaite, Charles Miner		108	Hoopeston
Wham, Benjamin	LA	35	Cartter
Wheeler, Bryant Long Wheeler, Irene Burchard Wheeler, Lyman Gage	Agr HSLA CE	24	Carrollton
Wheeler, Irene Burchard	HSLA	100	Laurens, Iowa
Wheeler, Lyman Gage	CE	108	Carrollton
Wheeler, Mildred Emeline	66	9	Stonington
Wheeler, Russell Claire	ME (SS)	36	Champaign
Wheeler, Russell Claire Wheeler, William Erastas, Jr.	LA	33	E. St. Louis
Wheelhouse, Mary Elizabeth	\overline{LA}	••	Decatur
Wheelock, Loyal Bergen	ĀĒ		Chicago
Whelen Tames Marion Ir	ĈĒ	108	Chicago Heights
Whelan, James Marion, Jr. Whipple, Warner Frank Whisler, Wayne Ely	Agr	33	Utica
Whippie, Wainer Flank	BLA	23	Savanna
whister, wayne by		23	
Whitchurch, Helen Margaret	HSAgr	15%	Salem
White, Bertha Esther	SS		Barry
White, Calvin William White, Frank Herbert, Jr.		101	Champaig n
White, Frank Herbert, Jr.	EE	3	Chicago
White, Frank Leon	ME	97	Galva
White, George Richard	CE		Buffalo, N. Y.
White, Graybiel Graham White, James Gordon		104	Chicago
White, James Gordon		102	Chicago
White, John Wilson White, Mary Louise White, Thomas Kenneth	L LA	69	Salem
White, Mary Louise	LA	97	Chrisman
White, Thomas Kenneth	EE	3 7	New York City
Whitelaw, James Chalmers Cameron	CerE	41	Chicago
Whiteside, Roy Allen	L sp		Moline
Whiteside, Roy Allen Whitford, Leverett George Whitnel, Joe	Agr	511	Edwardsville
Whitnel Toe	LA		E. St. Louis
Whitney Charles Farl	CF (SS)	87	Washington, D. C.
Whitney, Charles Earl Whitney, Elizabeth Ann	CE (SS)	25 k	Urbana
Whitney Uslan Woodraw	LA	101	La Grange
Whitney, Helen Woodrow Whitney, Lewis Husted		101	Evanston
Whitney, Lewis Husted	Agr sp	63	Cortland
Whittaker, Malinda	LA		
Whittenberg, Daniel Wayne	Agr sp LA (SS)	W 7 1	Vienna
Whittenberg, Sarah Jane	LA (33)	773	Tunnel Hill
Whittenberg, Daniel Wayne Whittenberg, Sarah Jane Wicoff, John Philip	\overline{ss}	22	Greenup
Wiebmer, Anton Henry	EE	75	Quincy
Wiedeman, David, Jr.	BLA		Harvey
Wiedeman, David, Jr. Wiersema, Harry Anthony		116	Berwyn
Wiesenmeyer, Henry Riecks	BLA	35	Springfield
Wightman, Richard Mars	CE	42	St. Louis, Mo.
Wikoff, Minna Luella	HSLA	88	Chicago
Wiesenmeyer, Henry Riecks Wightman, Richard Mars Wikoff, Minna Luella Wilber, Harold Courtney	BLA		Potomac

Wilbourn, Asa J	L	15	Olive Branch
Wiley, James Elmo Wiley, Robert Ernest Wiley, Sarah Jana	Agr	100	Colfax
Wiley Robert Ernest	ME	100	Warren
Wiley Carek Tone	HSAgr		Coljax
Wiley, Salah Jaha	1132191		
Wilford, Edward James	Agr		Aurora
Wilford, Robert Nicholas	Agr		Aurora
Wilkins, Raymond Harvey Wilkins, Stanley Charles Wilkinson, Elon Gilbert Wilkinson, Helen, A.B. (Univ. Cin- cinnati) 1909	Agr	90 1	Champaign
Wilkins, Stanley Charles	Agr		Chicago
Wilkinson, Elon Gilbert	BLA	47	Geneseo
Wilkinson, Helen, A.B. (Univ. Cin-			
cinnati) 1909	Lb	3	Cincinnati, Ohio
Willard, Hazel Gertrude Willard, Maude Harriett Willcox, Herbert Arthur	LA	4	Urbana
Willard, Hazer Gertride	S	001	D-1-1-1
Willard, Maude Harriett		891	Belvidere
Willcox, Herbert Arthur	A	46	Kastota, Minn.
wille, Laura may	A HSLA (SS LA (SS) Agr) 31	Kastota, Minn. Enid, Okla.
Willerton, Fay	LA (SS)	97 1	Farmer City
Williams, Alfred LeRoy		115%	Ft. Pitt, Saskatchewan
Williams, Charles Nicholas Williams, Earl Clinton Williams, Frank Lunsford Williams, Fenton Hamilton	A sp EE	•	Peoria
Williams Farl Clinton	EE '	74	Gardner
Williams Frank Lunsford	LA LA S S	• •	St. Louis, Mo.
Williams Fanton Hamilton	TA		Watseka
Williams, Fenton Fraumton	LA		VV disera
Williams, Genevieve	2		Sidell
Williams, Harry Chadbourne	S		Augusta, Wis.
Williams, Howard Ivan	EE		Rockford
Williams, Leo A	Agr		DuQuoin
Williams, Lulu Hazel	LA	102	Sidell
Williams, Genevieve Williams, Harry Chadbourne Williams, Howard Ivan Williams, Leo A Williams, Lulu Hazel Williams, Mary Edith, A.B., 1904,			0.3
A.M., 1906	Mus sp		Urbana
Williams Day Compell	CE SP	100	
Williams, Roy Campell	ÇE	109	Chicago
Williamson, Belle	LA	94	Palacios, Tex.
Williamson, John Caswell	LA		Sullivan
Williamson, Belle Williamson, John Caswell Williamson, Myra Marie	LA EE	31	Sullivan Tuscola
Williford, Edward Allan	EE	37	Nokomis
Williford, Louis Albert	EE LA Agr BLA EE SS Agr		Nokomis
Willis, Roy Barnes	Anr	68	Mt. Carmel
Willite Ward Maurice	DT A	00	Harvey
Willits, Ward Maurice Willson, Glen Irwin	DLA	72	
Willson, Glen II win	CC	12	Guernsey, Wyo.
Wilson, Albert Edward	22	9	Wasco
Wilson, Alfred David	Agr		McNabb
Wilson, Ashbel Ray Wilson, Bernice Celia Wilson, Helen May Wilson, Horace Smith, A.B., 1912	ME US 4 au	32	Hutsonville Los Angeles, Calif.
Wilson, Bernice Celia	HSAgr	65	Los Angeles, Calif.
Wilson, Helen May	LA		Chicago
Wilson, Horace Smith, A.B., 1912	REE	157	Chicago
Wilson, James Aiken Wilson, Norman Kenneth Wilson, Nelle Ruth Wilson, William Webb Windle, Clifford Cover	RME (SS)	76	Chicago Herrin
Wilson Norman Vannath	CE (33)		CII
Wilson, Worldan Kennech		10	Charte
Wilson, Nelle Kuth	LA	77	Chicago Sparta Brownstown Mt. Morris
Wilson, William Webb	Agr sp Agr sp	70	Brownstown
Windle, Clifford Cover	Agr sp		272 1. 272 () / / / 3
winquist, Samuel victor	BLA	67	Batavia
Wintermeyer, Elsa	S LA	113	Chicago
Winters, Charles Prior Wisner, Samuel Eugene	I.A	33	Chicago
Wisner Samuel Fugene	Cer	• • •	Hot Springs, Ark.
Witchell, Barton Edward	EE	27	Varmont
With A come Orlanda	MCE	251	Talias
With, George Orlando	MSE	333	Joines D. A. A.
Wittenberg, George Hyde	A	75	Little Rock, Ark.
Wittich, Fred Peter	EE (SS)	113	Chicago Hot Springs, Ark. Vermont Joliet Little Rock, Ark. St. Louis, Mo. Chicago Conover, Ohio
Woelbeling, William Kenneth	EE	6	Chicago
Woelbeling, William Kenneth Wolcott, Ward Shanks Wold, Charles Abraham Woleben, Dean Parkhurst	ME	20	Conover, Ohio Littleton, Colo.
Wold, Charles Abraham	CE CE EE	108	Littleton, Colo.
Wolehen Dean Parkhurst	CE	87	Chicago Heigths
Wolf Harman Corl	EE	140	Edwardsville
Wolf, Herman Carl Wolf, Joseph Hanna	CE CE EE Agr	100	Danailla Va
won, joseph rianna	Agr	40	Danville, Ky.
wolle, Jacob	L LA	42	Lafayette, Ind.
Wolfe, Viola Esther	LA	33	Urbana
Wolfe, Jacob Wolfe, Viola Esther Wolfe, William Sidney Wolff, Clarence Jacob	AE	124	Urbana
Wolff, Clarence Jacob	BLA	68	Springfield
Womacks, Mabel Clara	LA	66	Danville, Ky. Lafayette, Ind. Urbana Urbana Springfield Champaign

Wong, Wing Fooe Woo, Tsing Too Woo, Wai Shun Wood, Adeline Wood, Daniel Charles Wood, Harry Gardner Wood, Harry Thomas Wood, Otis LeRoy Woodcock, Helen Ernestine	BLA (SS)	971	Hong Kong, China
Woo Tsing Too	EE (SS)	$133\frac{1}{2}$	Saichow, China
Was Wai Shun	Agr	115	Shanghai, China
VV 00, VV al Shull	IIC 4 am	113	Cullings, China
Wood, Adeline	HSAgr		Sullivan
Wood, Daniel Charles	EE	108	Pekin
Wood, Harry Gardner	EE	75	Jacksonville
Wood, Harry Thomas	LA	65	Hennepin
Wood, Otis LeRoy	Cer	88	Carthage
Woodcock, Helen Ernestine	HSAgr		Ogden, Utah
	LA		Champaign
Woodroofe, Louise Marie	CC	421	
Woodruff, Arthur Eugene	ริร	131	Champaign
Woods, Ardie Geraldine	LA	109]	Macomb
Woods, George Edward	$\overline{L}A$	99	Paris
Woodward, Edwin Mortimer	\boldsymbol{A}		Odin
	EE	108	Gifford
Woolley, James Carson Woolman, Rachel Margaret Woolman, Richardine Woolston, William Henry Wooters, James Ellsworth, Ph.B., (Blackburg C.B.) 1009	EE ·	200	Carlinville
Woonley, James Carson			
Woolman, Rachel Margaret	HSAgr LA (SS)	<i>4</i> 8	Urbana
Woolman, Richardine	LA (33)	8	Urbana
Woolston, William Henry	Md	122	Geneva
Wooters, James Ellsworth, Ph.B.,			
(Blackburn Coll.) 1908	Agr sp	20 1	Odin
**** .	BLA	62	Champaign
Wasters Names Plants		02	Champaign
Wooters, Norman Elsworth	Agr		
Worrell, Joseph Lloyd	Agr	123	Bowen
Worrell, Mabel Fern	LA	94	Bowen
Wray, Charles William	Agr		Rockford
Wright, Allan Thurman	LA (SS)	941	Franklin
Wright Rernice	LA	67	Brocton
Which Dennice	Ĩ.	29	Freeport
Wooters, Leland Magness Wooters, Norman Elsworth Worrell, Joseph Lloyd Worrell, Mabel Fern Wray, Charles William Wright, Allan Thurman Wright, Bernice Wright, Burrell Wright, Douglas, Jr. Wright, Edward Paul Wright, Joseph Franklin Wright, Iosenh William	4	24	
Wright, Douglas, Jr.	Agr CE	34	Decatur
Wright, Edward Paul	CE		Brocton
Wright, Joseph Franklin	BLA		Champaign
Wright, Joseph William Wright, Melvin James Wright, Minnie Roberta	CerE		Chicago
Wright Melvin James	S		Urbana
Wright Minnie Poherta	LA	63	Urbana
Which Convol Anthony	LA	100	Rome, Ga.
Wright, Samuel Anthony		100	Candan Businia
Wright, Wayne Elisworth	Agr		Garden Prairie
Wright, William Joshua, Jr.	Ch		Dongola
Wrisley, George Alfred	BLA		Chicago
Wright, Samuel Anthony Wright, Wayne Ellsworth Wright, William Joshua, Jr. Wrisley, George Alfred Wu, Chi Kao	S (SS)	$144\frac{1}{2}$	Shanghai, China Canton, China
Wu, Pond Sheppon	.22.	_	Canton China
	ME		Hunan, China
Wu, Wei Yoh Wyant, Carl Stanley Wyatt, Frank Archibald, B.S., (Agrl Coll. Utah) 1910 Wycoff, Benjamin Harrison Wycoff, Delia Wykle, Bertha Alice Wykle, Ethel Marie Wyland Pay Orion	A	76	Waterloo, Iowa
Wyant, Carl Stanley	а	70	waterioo, lows
Wyatt, Frank Archibaid, B.S.,	00	4.51	T . TT. 1
(Agrl Coll. Utah) 1910	SS	451	Logan, Utah
Wycoff, Benjamin Harrison	Agr	70 1	Laura
Wycoff, Delia	HSAgr	28	Laura
Wykle, Bertha Alice	LA	69	Mahomet
Wykle Ethel Marie	HSAgr	21	Mahomet
Wyland Pay Orion	LA	~~	Ringwood, Okla.
Wyland, Ray Orlon		201	
Wylie, Arthur Johnson	Agr	281	Utica
Wyman, Wallace Yarwood, Stuart Kenneth	A_{-}	107	Mansfield
Yarwood, Stuart Kenneth	AE	28 1	Elgin
Yates, Anne Corinne	LA		Vincennes, Ind.
Yates, Anne Corinne Yen, Chia Cheow Yim, Daniel Jow	S	100	Foo Chow, China
Vim Daniel Iow	ME		Canton, China
Vouna Authur Edmin	Agr		Eugene, Oregon
Young, Arthur Edwin			Newman
Young, Edgar Berkley	Agr sp		
Young, Everett Gillham	RME	116	Denver, Colo.
Young, John Law	Agr		Canton, China
Young, Yung Yen	Agr (SS)	142	Nanziang, China
Younglove, Clyde Charles	AE	72	Sioux City, Ia.
Young, John Law Young, Yung Yen Younglove, Clyde Charles Zahn, Fred Raymond	MSE	70	Belle Rive
Zee Jechima Zohn	EE (SS)	75	Shanghai, China
Zee, Jeshime Zohn	T 4 (CC)		
Zeis, Henry Charles	LA (SS)	90	Waterloo
Zelle, Carl Alfred	Ch		Lake Fork

Zeller, Simon S	LA	15	Brazil, Ind.
Zeppenfeld, Eugene William	Agr	67	St. Louis, Mo.
Zeter, Harry Moyer	Agr	$31\frac{1}{2}$	Lincoln
Zetterholm, Maurice Emil	L	26	Galesburg
Zimmerman, Anthony Urban	ME(SS)	41	Peoria
Zimmerman, Arthur Charles	\boldsymbol{A}	18	Peru
Zimmerman, Robert Paul	LA (SS)	99 1	Chilton, Texas
Zinser, Robert Bruce	BLA	_	Washington
Zipf, Oscar Robert, Jr.	Agr		Freeport
Zipprodt, Roy Richard	AE	36	Urbana
Zollinger, James Edward	EE	36	Alliance, Neb.
Zook, Jacob Bloom	EE (SS)	$73\frac{1}{2}$	La Grange

SCHOOL OF PHARMACY

NAME	COURSE*	RESIDENCE
Anderson, Adolph Emil (Ph.G., 1911)	PC sb	Moline
Anderson, Albert Franklin	P I	St. Johns, Ariz.
Arnold, Grover Cleveland	P $\hat{2}$	Astoria
Baggaley, William	P sp	Chicago
Baird, Frank, Jr.	P sp	Harvard
Bate, Harry Duddly	P 1	Chicago
Bautz, Walter	P sp	Chicago
Becker, Edna	P 1	Davenport, Ia.
Beckert, LeRoy	P sp	Chicago
Blahnik, Emil Albert	P 1	Chicago
Boehm, Frederick Evenson	P 1	Neenah, Wis.
	P sp	Chicago
Borrelli, Dominick	P 2	Chicago
Borucki, Edward Anthony Felix	P 2 P 1 P 1	Gratiot, Wis.
Bosch, August Christopher	F 1	Rice Lake, Wis.
Brekke, Marshall Theodore	P 1	Effingham
Broom, Lewis Harris	P sp	Pontiac
Brown, Lester Elbert	P sp	
Bryant, Floyde Wiley	P 1	Elizabeth
Brykowski, Frank	P sp	Cicero
Buckmann, George Edward	P 2 P 1 P 2	Chicago
Canham, George Ernest	P 1	Neponset
Chapman, Harold Potter	PZ	Chicago
Clodgio, Norman Timothy	P sp P 2 P 2 P 1 P 2 P 2 P 2 P 1	Chicago
Clark, Francis Edward	P 2	Peoria
Cleveland, Harold Vincent	P 2	Grayslake
Converse, Lawrence	P 1	Chicago
Cook, Albert	P 2	Terre Haute, Ind.
Cooke, Lawson Jacob	P 2	Goodland, Ind.
Crawford, Abiram Lee	P 2	Genoa
Crow, Joseph Benjamin	P = 1	Ashley
Cunningham, Thomas William	P 1	Chicago
Dahms, Arthur August	P sp	Chicago
Dancey, John Leonard	P = sp	Malden
Davenport, Royal	P sp P 2 P 2 P 1 P 2	Calvin
Davidson, George Edward	P 2	Chicago
DeKoker, Abraham	P 1	Chicago
Donahue, Edward Thomas	P 2	Chicago
Dulla, Joseph Peter	P sp	Chicago
Edgett, Paul Wright	PC 1	Earlville
Egan, Raymond	P sp	Chicago
Eicholtz, Guy Wilbur	P 2 P 1	Chicago
Ende, Walter Arthur	P 1	Chicago
Erickson, Arthur Henry	P sp	Chicago
Esmond, Wendell Rodgers	P 1	Maywood
Falder, Everett Lester	\$\$\$1\$\$1\$\$1\$\$211\$\$\$\$1\$\$212\$\$2211\$\$\$\$2212\$\$1\$\$1	Chicago
Freedman, Paul	P 1	Chicago

^{*}Abbreviations: P, Pharmacy; PC, Pharmaceutical Chemistry; 1, first year; 2, second year; sp, special.

	_	a
Friedl, William John	P 1	Chicago
Gabric, Philip	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	Chicago
Comball Vari Vino	D of	Chicago
Gambell, Karl Vine	n 4	
Garside, James William Garrity, Jeremiah Gerald Gates, George Francis Glenn, Elmer Henry	P I	Wyoming
Garrity, Teremiah Gerald	P 1	Spring Valley
Catar Caarga Erancis	P 1	Chicago
Gates, George Francis	n 1.	Chicago
Glenn, Elmer Henry	P sp	
(volusting, Harry	P sp	Chicago
Gordon, Samuel Michael	P sh	Chicago
Coltanna Distant William	D 1	Forest Park
Goltermann, Richard William	F 1	
Gouwens, Peter	P 2	Chicago
Gragg, Alfred Campbell	P 2	Litchfield
	Pch	Chicago
Grund, Charles Hugo, Jr.	n sr	
Greenawalt, Percy Frank	P I	Lanark
Greenawalt, Percy Frank Gustafson, Melsor Eugene	P sp	Chicago
Hackler, George Roscoe	Po	Pekin
Trackier, George Roscoe	ົກ ວ	Chicago
Hanneman, Lucas Peter	F 2	Chicago
Hanneman, Lucas Peter Hart, John McDonald	P sp	Chicago
Hecht, Emil	P 1	Chicago
TT 11 Cl1 TT:1-1:	D ob	Chicago
Hedberg, Charles Hilding	r sp	
Heidbreder, Edgar Philip	PC 2	Quincy
Henry, Carl John	P 2	Aurora
Hildebrandt, Philip Ervin	P 1	Lake Mills, Wis.
	'n	
Hirsh, David	P 1	Chicago
Holderread, George Warren	P 2	Litchfield
Hollinshead, Elwood Jay	P 1	Morrison
Hollinshead, Elwood Jay	PC 1	Monmouth
Hoy, Ralph Gilbert	PUI	
Huebner, Charles Lawrence	P sp	Chicago
Huebner, Charles Lawrence Hulden, Clarence Andrew	P sb	Chicago
Truiden, Clarence Indiew	D 1	Carthage
Huston, Herbert Spangler	F 1	
Hutton, Malcolm Lee Jaeger, Clayton Eugene	P 2	Elizabeth
Tagger Clayton Eugene	P sb	Chicago
Timbel Corner William	Di	Chicago
Jindrich, George William	D	
Johannes, Walter Charles Johnson, Harry Ernest	P SP	Chicago
Johnson, Harry Ernest	P 1	Rockford
Tondon Cill	P 1	Chicago
Jordan, Gill	n 1	
Kakacek, Joseph John	F 1	Chicago
Kakacek, Joseph John Kaspar, William John	P 1	Chicago
Kaufman, Isadore	P sb	Chicago
Taurinan, Isadore	D 1	Rensselaer, Ind.
Knox, John McConnell Kost, William Rush	7 1	
Kost, William Rush	P 2	Astoria
Kowalski, Joseph Wengel Kraemer, George Charles	P sb	Chicago
Vroemer Coorge Charles	ρj	Chicago
Kiacinei, George Charles	D 1	Roseville
Krohn, Fred Earl	F 1	
Lavieri, Genario Dominic	PC 1	Chicago
Lee, William Alexander	P 2	Chicago
	P sp P 1 P 2 P 1 P 2 P 1 P 2 P 2 P 1 P 2 P 2	Chicago
Lesko, Charles James	<u> </u>	
Levy, Leon Frank	P sp	Ottawa
Lewman, Everet Andrew, B.S. (Pur-		
Jun Iluinomoita 1002)	P 2	Montezuma, Ind.
due University, 1902)	n i	LaGrange
Logan, Albert Wellington	P 2	
Lollar, Errett Hale	P 2	Newton
Long George Archibald	P 2	Rensselaer, Ind.
Lollar, Errett Hale Long, George Archibald	ם מ	Maquoketa, Is.
Lickiesh, Edward	F 4	
Lukasek, Alfred Michael	P 2	Chicago
McBride, George William	P 1	Paw Paw
MaNatil Dan	P 2	Herrin
McNeill, Roy Mancusi, John Benjamin	D 1	
Mancusi, John Benjamin	<u> </u>	Chicago
Mendelsohn, Paul Israel	P I	Chicago
Merschat, Raymond Bartholomew	P sb	Chicago
Marchat Dishard William	P 1	Chicago
Merschat, Richard William	n á	
Metcoff, Eli	F 2	Chicago
Meyrick, George Joseph	P 1	Chicago
Michalak, Casimir Anthony	P 1	Chicago
Miller Thomas	P 1	Chicago
Miller, Thomas Miller, David Lyman	P 2 2 2 2 2 P P 2 2 2 P P P 1 2 1 1 1 P P P 1 1 P P P 1 1 P P P 1 1 P P P 1 1 P P P 1 1 1 P P P 1 1 1 P P P 1 1 1 P P P 1 1 1 1 P P P 1 1 1 1 P P P 1 1 1 P P P 1 1 1 P P P 1 1 1 P P P 1 1 1 1 P P P 1 1 1 P P P 1 1 1 P P P 1 1 1 P P P 1 1 1 P P P 1 1 1 P P P 1 1 1 P P P 1 1 1 P P P 1 1 P P P 1 1 P P P 1 1 P P P 1 1 P P P 1 1 P P P 1 1 P P P 1 1 P P P 1 1 P P P 1 1 P P P P 1 1 P	
Miller, David Lyman	r 1	Carmi

Murphy, James Stanislaus	P 2	Nokomis
Myerson, Abraham Newberry, George Morris	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	Chicago
Newberry, George Morris	P 1	Rock Isl LaSalle
Niesen, Charles James Oetzel, Joe Karnes	P 1	Danville
Orr, Charles Clearance Pankau, Francis Alfred Pearce, Irving Fitch Polin, Rose	P. 1	Chicago
Pankau, Francis Alfred	P 2	Chicago
Pearce, Irving Fitch	P 1	Chicago
Polin, Rose	P 1	Chicago
Porter, Houston Prendergast, Richard Joseph	P 2	St. Loui Chicago
Prims, George	Psb	Chicago
Rackaway, Alva Walter	P 2	Mt. Ver
Radomski, Leon Roman	P 2	Chicago
Rackaway, Alva Walter Radomski, Leon Roman Rueckert, Elmer Sadilek, William	P = 1	Lake Mi
Sadilek, William	P sp	Chicago
Schabloske, Charles Leo Sehmid, Harold	P sp P 1 PC 1	Chicago Chicago
Schreiner, Albert, Tr.	PC 1	Batavia
Schultz, Alfred Edward	P sp	Waterma
Schultz, Alfred Edward Schultz, Charles John Schulz, Walter Carl Seuring, Carl Albert	P sp P 2 P 2	Chicago
Schulz, Walter Carl	P 2	Chicago
Seuring, Carl Albert	P sp	Chicago Miller, S
Shaw, Albert Jay Shwetz, Michael	P 1	Chicago
Skillman Herhert Irving	P 1	Wyoming
Skillman, Herbert Irving Sladky, George Joseph Snyder, Forrest Omo	P 1 P 1 P 1 P 2 P 2	Hawthor
Snyder, Forrest Omo	PC 2	Chicago
Stables, Harry Fleming	P 2	Bethany
Stech, Frank James	P sp	Chicago
Stodden, Karl Stoebig, Louis Elmer Stryzek, Edward Joseph	P sp P 2 P 1 P 2 P sp P 2 P 1	Lyons, I Chicago
Stryzek, Edward Joseph	P 1	Chicago
Stulik, George	P 2	Chicago
Subert, Frank lames	P sp	Chicago
Sullivan, William Clark Tanner, James Clifton Taylor, Harry Arthur	P 2	Flanagan
Tanner, James Clifton	PI	Louisvill Antioch
Thompson, Ralph Harold	P sp P 1	Earlville
Todd, Harold Andrew	P 1	Grand Ju
Tomamichel, Robert Peter	P sp	Quincy Texarkar
Trippett, Sidney Bradley	P sp	Texarkar
Unger, Paul Vann, James Silas Van Nugteren, Frank William	P sp	Chicago
Vann, James Silas	PC 2	Chicago Chicago
Van Nugteren, Frank William Vannell George Frederick	PC 1	Chicago
Vaupell, George Frederick Vavra, Clio	P 1	Chicago
Vondrasek, Frank Toseph	P 1	Chicago
Wach, Charles Edward	P 2	Chicago
Waldo, Reginald Heber Walsh, Thomas George Walter, George Fred	P 2	Grand Ji
Walter Coorge Fred	P SP	Chicago Chicago
Walther, Reuben William	P 2	Chicago
Warczak, John Stanley	P sb	Chicago
Warczak, John Stanley Warzynski, Ladislaus Joseph	P 1	Chicago
Weaver, Joe Hastings	P 2	Oregon
Weaver, Joe Hastings Weber, Peter Jacob Francis Whitington, Omar Rosewell Whitley, Walker Edward Wiles, Clarence Edward Wilbalm William Flord	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	Chicago
Whitley Walker Edward	P 1	Waldron, Waterfor
Wiles, Clarence Edward	Psp	Kankake
		///
(Valparaiso University, 1907) Wixsom, Lee Almond	P sp	Carbondo
Wixsom, Lee Almond	P 2	Chicago
Woltersdorf, Oscar	P 2	Chicago
Zarobsky, Otto Frank Zeman, Albert William	P sp P 2 P 2 P 2 P sp	Chicago Chicago
Deman, Milet William	,	Chicago

sland is, Mo. rnon ills, Wis. an So. Dak. ig, Ohio rne Ιa. n lle unction, Colo. na, Ark. Junction, Colo. n, Ark. ord, Wis. lale

DEGREES CONFERRED

1912

THE UNDERGRADUATE COLLEGES

DEGREES OF BACHELOR OF ARTS, BACHELOR OF SCIENCE, AND BACHELOR OF MUSIC

Conferred June 12, 1912

ALFRED NOVES ABBOTT, (as of the class of 1885), Bachelor of Science (Agriculture) ARTHUR WILLIAM ABBOTT, Bachelor of Science (Agriculture) M D ABNEY, Bachelor of Arts (Science*) HERBERT AUGUSTUS ACER, Bachelor of Arts (Literature and Arts) RHODA GILMOUR ADRIANCE, Bachelor of Arts (Literature and Arts) WALTER WILFORD AINSWORTH, Bachelor of Arts (Literature and Arts) ARTHUR JOSEPH ALBRECHT, Bachelor of Arts (Literature and Arts) HAZEL ELLEN ALKIRE, Bachelor of Arts (Literature and Arts) EDWARD DEWALT ALLEN, Bachelor of Arts (Science) RALPH ALLEN, Jr., Bachelor of Science (Agriculture) ORR ALLYN, Bachelor of Science (Agriculture) GUY VERNON ANDERSON, Bachelor of Science (Agriculture) LEO MAHLON APGAR. Bachelor of Science (Electrical Engineering) GROVER SAMUEL ARBUCKLE, Bachelor of Science (Mechanical Engineering) Louise Christabel Armstrong, Bachelor of Arts (Literature and Arts) PEARL WINIFRED ASHTON, Bachelor of Arts (Science) CHARLES WILLIAM ATTEBERRY, Bachelor of Arts (Agriculture) BEULAH WINIFRED BACH, Bachelor of Arts (Literature and Arts) GLEN DAVID BAGLEY, Bachelor of Science (Electrical Engineering) OSCAR ROLAND BAINES. Bachelor of Arts (Literature and Arts) LAURA MINERVA BAKER, Bachelor of Arts (Literature and Arts) ERNEST ROBERT BALDWIN, Bachelor of Science (Agriculture) MAMIE ANNA BALDWIN, Bachelor of Arts (Literature and Arts) GENEVA MAE BANE, Bachelor of Science (Agriculture) JULIET LITA BANE, Bachelor of Science (Agriculture) ORLEY GLEN BARRETT, Bachelor of Science (Agriculture) MARY CORDELIA BARRY, Bachelor of Arts (Literature and Arts) CYRUS WHITE BASSETT, Bachelor of Science (Railway Electrical Engineering) STACY COLLINS BATES, Bachelor of Arts (Science) FRANKLIN WILLIAM BAUER, Bachelor of Arts (Literature and Arts) ARTHUR EDWARD BAUM, Bachelor of Arts (Literature and Arts) THEODORE ANDREW BAUMANN, Bachelor of Arts (Science) CHARLES WESLEY BEALL, Bachelor of Arts (Literature and Arts) KENNETH BEBB, Bachelor of Science (Agriculture) MABEL FLORENCE BEBB, Bachelor of Arts (Literature and Arts) OLIVE RUTH BECKINGTON, Bachelor of Arts (Literature and Arts) CYRENIUS BEERS, JR., Bachelor of Science (Agriculture) BENJAMIN RUDOLPH BELSLEY, Bachelor of Arts (Science)

JEFFERSON HALL BELT, Bachelor of Science (Electrical Engineering)

^{*}With thesis.

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^{*}With thesis.

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^{*}With thesis.

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^{*}With thesis.

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^{*}With thesis.

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THE COLLEGE OF LAW

DEGREE OF BACHELOR OF LAWS

Conferred June 12, 1912

DE WITT BILLMAN
EDWIN VAN METER CHAMPION
WILFRED MORAN DOHERTY
EDWARD LOUIS EAGLE
CHESTER OWEN FISCHER
WINFIELD CORWIN GILMORE
LOGAN GLASGOW GRIFFITH
ALBERT LEANDER HALL
DORRIS NELSON HITCH
HAROLD EVERETT HUBER
HENRY JEROME INGRAM
THOMAS JEFFERSON KASTEL
ABNER FRED KENDALL

HARRY EDWARD KERKER
PAUL BLISS LAUHER
HERMAN MOHR
RALPH MONROE
TIRRIE OSTIN PRATHER
RAYMOND GEORGE REAL
CHARLES SIMEON ROBERTS
LYNN CALLSEN SIEBERNS
PETER CHARLES WALTERS
CHARLES PROVINE WEBB
CHARLES WHAM
LLOYD GARRISON WILLIAMS

DEGREE OF DOCTOR OF LAW

JOHN LARIMER KAGY, A.B., 1909

^{*}With thesis.

THE LIBRARY SCHOOL

DEGREE OF BACHELOR OF LIBRARY SCIENCE

Conferred June 12, 1912

CLARA MABLE BROOKS
WINIFRED FEHRENKAMP
EMMA FELSENTHAL, Ph.B. (University of Chicago) 1910
AURELLA KNAPP, A.B. (Illinois Wesleyan University) 1909
MYRTLE ELIZABETH KNEPPER, A.B. (Highland University) 1907
MARGIE ETHOL LANGDON, A.B. (Nebraska Wesleyan University) 1907
FRANCES WILLARD MATHIS
MARY GERTRUDE MORTON, B.L. (Ohio Wesleyan University) 1905
CATHARINE SUSAN OAKS, A.B. (William Smith College) 1912
HONOR LOUISE PLUMMER, A.B. (University of Colorado) 1907
MYRTLE ANNA RENZ
EMILY ROBISON, A.B., (Temple University) 1909

THE COLLEGE OF MEDICINE

DEGREE OF DOCTOR OF MEDICINE AND SURGERY

Conferred June 4, 1912, in Chicago

MABEL INDIA ADAMS E ALBERT AISENSTADT HARRY ALDES ALBERT ALLEN OLIVER EDMOND ALYEA JEREMIAH FRANK ARMSTRONG, B.S. Aron Max Beilin ARTHUR LEWIS BEYERLEIN CHARLES PATTON BLAIR, A.M. Julius Bloom EUGENE RADFORD BOYER ROY FRED BREEDEN EDWIN RUTHERFORD BUTTERFIELD MABEL ROSINA CARLSON ARTHUR NARCISSE CHATEL BENJAMIN ZIEGFRIED CHANNON GEORGE ABBOTT CHICKERING, B.S. EDWARD ALBERT CHRISTOFFERSON JAMES MATTHEW CONERTY ASHER RAYMOND COTTRELL LAURA MURPHY COTTRELL WALTER WILLIAM CRESS FRED RAYMOND CROOKS SELMA OLGA CZOLBE DAVID DERONDA DELZELL CHARLES CHESTER DICKINSON FRANK DICOSOLA STEPHEN ALPHONSUS DONAHOE WILLIAM EMMETT DONAHOE HARRY JOSEPH DWYER

JOHN ADAM EBERT JOHN ALDEN DEAN ENGESATHER ALEXANDER DONALD FERGUSON CLEMENT FISCHER ROSCOE ROBY FISK ROBERT BENONI FLEEGER ABRAHAM GEORGE FLEISCHMAN HOWARD NORTON FLEXER ABRAHAM ALBERT FREEDMAN HARRY JOSEPH FREEMMEL ALBERT EUGENE FUCHS ALAN EDWARD GAGE KATHARINE GEROW WILLIAM N GOONE TOHN SIMPSON GORDON HAROLD VOGT GOULD OTTO ISHMAEL GREEN, B.S. MERRILL WORTH GRUBB LOUIS MORRIS GRUNBERG HENRY VIRGIL HANSON LYNDON DENNY HARRIS CLARA EDNA HAYES HENRY WALLACE HARTZELL GRACE LINE HOMMAN JOHN H HRABIK ROBERT HURKA FRANK EMERSON INKS, A.B. JAMIE NICOLAS BENSON MUNDY JEWELL CHARLES HARCOURT JOHNSON

MARIE JEANNETTE JONES WALTER RAYMOND JONES, A.B. PAUL VINCENT JOYCE ARTHUR WILLIAM KARCH HARRY KNOTT ISIDOR EMIL KOHN THEODORE KOLVOORD SIGURD HERBERT KRAFT LOUIS ROBERT KRATZENSTEIN LOUIS FRANKLIN KUBELA VIDDA SAMUEL LAURIN TACK RALPH LAVIERI WELCOME BABCOCK LEWIS, B.S. EDMUND WILLIAM LITTLEFIELD ROCCO VINCENZO LOBRAICO GILBERT MARTIN LOEWE RAY EVAN LOGAN LYNN LUZERNE LORENS TOHN HARRISON LYNN HARRISON WILLIS MALTBY WALKER ROSCOE MARKS HARRY WATSON MARTIN JOHN FRANKLIN MARTIN JOSEPH INGRAM MERSHON CARL MICHEL CHARLES EDWARD JOHN MILLER FREDERICK CHRISTOPHER MILLER PAUL MORTON MILLER HAROLD H MOORE LUTHER REMI MOORE RALPH DOLLAHAN MURPHY CLARENCE JAMES McMullen NAUM GEORGE NASIP BARBARA MARIE NICKEY OLIVER S OLSON WALTER KNUTE OLSON LEONARD JOSEPH OSTROWSKI NEAL LAWRENCE O'HERRIN JOHN GABRIEL O'MALLEY RUBY HELEN PAINE BERNARD BARNEY PARKER RUTH AZNIV PARMALEE, A.B. TAMES FRANCIS PEATTIE

FREDERICK JAMES PORT JAMES BERNARD RAUB THOMAS HAROLD REAGAN TORRENCE REED ARTHUR CALVIN RHINE BUDD ROBBINS FREDERICK KING ROGERS SAMUEL JOHN ROSS DELTA EULILLA ROWLAND HOBART CONWAY RUDDICK RICHARD ROOT RUPERT HERMAN LOUIS SARVELA MARTIN PAVEL SASKO WILLIAM CHRISTOPHER SCHIELE CHESTER ORVILLE SHEPARD FRANK EDMUND SHIPMAN, Ph.G. IRENE SMEDLEY, A.B. TAMES ROYAL SMITH OLIVER RUFUS SPALDING CHARLES JOHN STAUFFACHER, B.S. EMIL JAMES STEIN BENJAMIN GEORGE STEPHENSON FRED EICHER STOKEY LESLIE LEWIS STONE, Ph.G. SAMUEL STUSSER ROSS OREN TAYLOR ALVIN THOMPSON CLYDE ROGERS VAN GUNDY WILLARD ROBERT VAUGHAN CHARLES JOHN WAGNER, A.M. THOMAS BURKE WALSH ARTHUR EMIL AUGUST WANDERER FRANK MONROE WELDY ARTHUR WILLIAM WERMUTH WARREN OVERTON WHEELOCK SARAH MARGUERITE WHITE CLARENCE HENRY WIENEKE JOHN CLEMENT WILLIAMSON CLYDE EARL WILSON ROY HITCHON WILSON FRANK CHARLES WINTERS EZRA LLOYD WURTZER

THE COLLEGE OF DENTISTRY

DEGREE OF DOCTOR OF DENTAL SURGERY

Conferred June 4, 1912, in Chicago

ERIC ALLAN-MARTIN
MEHDY EDWARD ASGER
SPENCER PAUL ASHLEY
EVART BENJAMIN BERRY
GILBERT G BICKNELL
EDWARD HARRY BUSTA

ALBERT FREDERICK COLTMAN FRANK S COMELLO LEO N DANIELS HERMAN SIDNEY DEUTSCH EDWIN EVANSON JOSEPH ANTHONY FLANNERY IRVIN ULRICH FRIED BERNARD D FRIEDMAN S TOSEPH Z GANTZ PHILIP H GOLDSTEIN BERT CRAWFORD HIGGINS SHINHICHI HARRY ITO B ARNETT JORDAN WILLIAM WALLACE McCRILLIS EMMETT E McDermott HENRY JACOB MANN ROBERT MARTIN OSKAR PAUL MARTIN

ARTHUR CONROD MEYER JOSEPH D PALESE HANNAH ESHOO PATROUS EDLA ALICE PORATH SOLOMON H ROBERTS Авганам Котн AMANDE ANNA SHAY CORRINE SLAMAN CARROLL W STUART CARL DAVID TAY PETER JOSEPH TEELING JOHN VAN DER VEN

THE SCHOOL OF PHARMACY

DEGREE OF GRADUATE IN PHARMACY

Conferred April 25, 1912, in Chicago

JOHN ELON BIXBY GROVER CLEVELAND BOND Louis Arthur Bossman TOHN CARVELLI TOHN AUGUST DORTAHN ARTHUR THEODORE ENGLAND (Class of 1910) Angelo Marie Ferrer TAMES HOWARD FINNIGAN TESSE HAROLD GALLAWAY TACOB GOLDSTEIN STEPHEN S GORNY BENTAMIN CARL GROOSE ROY WILLIAM HARRELL MICHAEL GEORGE KASPRZYK PAUL McCulloch Kepner (Class of 1911) ARTHUR MILNE KIDD, JR. FRANK W KREMER, JR. (Class of 1910) JOSEPH KRUPICKA

ORVAL WILKIE LEE (Class of 1911) FRANK HENRY LINDEMAN CHESTER ARTHUR LOGAN (Class of 1911) ERNEST ELMER MONTGOMERY (Class of 1911) ADELBERT DALE NEIS (Class of 1910) ERNEST PRESTON OWEN OSCAR W ROGERS (Class of 1910) THOMAS ROSE (Class of 1911) VIRGIL FREDERICK SIEBERT WILLIAM JAMES STINSON ROBERT HARVEY STOCKS WALTER SWIECINSKI JOHN LUDOVIC VALENTINO JOSEPH A WARZYASKI HAYDN HENRY WORLEY

DEGREE OF PHARMACEUTICAL CHEMIST Conferred June 9, 1912, in Chicago

STANLEY C CLARKE BEN LEE EICHER (Class of 1911) HERBERT HENRY HEIDBREDER (Class of 1911)

THE GRADUATE SCHOOL

DEGREES OF MASTER OF ARTS AND MASTER OF SCIENCE Conferred June 12, 1912

IDA EMILY AKIN, A.B. (Indiana University) 1908 Master of Arts (Botany) ARVID R. BERT ANDERSON, B.S., 1911 JESSIE EMMA BALDWIN, A.B., 1908 Master of Science (Electrical Engi- Master of Arts (Botany) neering)

CHARLES THOMAS ANDERSON, B.S., 1911 Master of Science (Electrical Engi-

PANZY LOUISE BARGER, B.S. (Tarkio College) 1911 Master of Arts (Zoology) JESSIE MELANGTHON BARNHART, B.S., Master of Science (Chemistry) FLORENCE GABRILLE BAXTER, A.B., 1911 Master of Arts (Mathematics) CLAUDIUS EDMUND BENNETT, B.S. (University of Nebraska) 1909 neering) OLAF BERGEIM, B.S. (South Dakota State College) 1908 Master of Science (Chemistry) CHARLES DAY BLACK, B.S., 1911 Master of Science (Electrical Engineering) NORMAN ROBERT BLATHERWICK, B.S. (Grinnell College) 1909 Master of Science (Chemistry) SIMEON JAMES BOLE, A.B. (University of Michigan) 1906 Master of Arts (Education) JOHN HENRY BORNMANN, B.S., 1910 Master of Science (Chemistry) ROYDEN EARL BRAND, B.S., 1909 Master of Science (Dairy Husbandry) ELIZABETH PARNHAM BRUSH, A.B. (Smith College) 1909 Master of Arts (History) FRANK LESLIE CLAPP, B.S. (Lincoln College) 1911 Master of Arts (Education) HARRY PEACH CORSON, B.S. (New Hampshire College) 1910 Master of Science (Chemistry) FLORA ALICE DENBY, Ph.B. (Blackburn College) 1911 Master of Arts (English) CHARLES ELMER DURST, B.S., 1909 Master of Science (Horticulture) MATI LAL DUTT, B.S., 1911 Master of Science (Electrical Engineering) WALTER ELMER EKBLAW, A.B., 1910 Master of Arts (Geology) MANUEL CONRAD ELMER, B.S. (Northwestern College) 1911 Master of Arts (Sociology) LAWRENCE TURNER FAIRHALL, B.S., 1911 Master of Science (Chemistry) CHARLES FRANCIS FERRIS, B.S., 1911 Master of Science (Agronomy) SARA ADELAIDE FLEMING, A.B. (Greenville College) 1907

Master of Arts (German)

CYRUS STOKES GENTRY, A.B. (McKendree College) 1911 Master of Arts (Classics) GRACE GLASGOW, B.S., 1912 Master of Science (Botany) RUTH GLASGOW, B.S., 1912 Master of Science (Botany) FRED JAY GRAY, B.S., 1911 Master of Science (Electrical Engineering) Master of Science (Electrical Engi- Owen Eugene Grigsby, B.S., 1911 Master of Science (Electrical Engineering) AXEL FERDINAND GUSTAFSON, B.S., 1907 Master of Science (Agronomy) HARRY FIELDING HADLEY, A.B. (James Millikin University) 1911 Master of Arts (Chemistry) HAZEL HARDIN, A.B. (DePauw University) 1908 Master of Arts (Classics) ELIZABETH MARY HATCH, A.B., 1912 Master of Arts (Psychology) HARRY EWALD HEEREN, A.B. (Shurtleff College) 1911 Master of Arts (Political Science) ADA VIOLA HOOVER, B.S. (Carthage College) 1911 Master of Arts (Classics) JOSTE BATCHELLER HOUCHENS, A.B. (Tulane University) 1903; B.L.S., 1905 Master of Arts (Sociology) DELTON THOMAS HOWARD, A.B. (Lawrence College) 1910 Master of Arts (Philosophy) JAMES ORTON HUFF, A.B., 1911 Master of Arts (English) LEONARD VAUGHAN JAMES, B.S., 1906 Master of Science (Electrical Engineering) KATHERINE JENSEN, B.S. (North Dakota Agricultural College). Master of Science (Household Science) LLOYD THEODORE JONES, A.B., A.M. (Lake Forest College) 1909, 1910 Master of Science (Physics) FRANCES MARJORIE KILBURN, A.B. (Rockford College) 1911 Master of Arts (English) HOWARD BAKER KINGSBURY, A.B., 1909 Master of Arts (Mathematics) EDWARD AUGUST THEODORE KIRCHER .-A.B., 1911 Master of Arts (Mathematics)

SHERMAN HENRY LITTLER, A.B., 1911 WILLIAM FRED SCHALLER, B.S., 1910 Master of Science (Electrical Engi-Master of Arts (Education) neering) TULIAN HERMAN LEWIS, A.B., 1911 GEORGIA KELLAR SLOUGH, A.B. Master of Arts (Physiology) (Hedding College) 1908 EDWARD ROY LUDWIG. B.S., 1911 Master of Arts (Classics) Master of Science (Architecture) PERCY ALMERIN SMITH, A.B., 1901 JESSIE MCHARRY, A.B., 1911 Master of Arts (Education) Master of Arts (History) WILLIAM HERSCHEL SMITH, B.S. ESTHER MASSEY, A.B., 1905 (University of Nebraska) 1906 Master of Arts (German) Master of Science (Animal Louis Clark Mathewson, A.B., A.M. bandry) (Albion College) 1910, 1911 VERA JESSIE SNOOK, A.B., 1911 Master of Arts (Mathematics) Master of Arts (English) FREDERICK EMERSON MERRILS. A.B. IRENE ELIZABETH STALEY, A.B. (Harvard University) 1911 (James Millikin University) 1909 Master of Arts (Political Science) Master of Arts (English) CHARLES LESLIE STEWART, A.B. FLOYD HAYS MILLARD, B.S. (Illinois Wesleyan University) 1911 (University of Colorado) 1910 Master of Arts (Economics) Master of Science (Theoretical and CHARLES JACOB STOWELL, B.S. Applied Mechanics) (Illinois Wesleyan University) 1911 JOHN HARRIS MITCHELL, B.S., M.S. Master of Arts (Economics) (Alabama Polytechnic Institute) 1903, MILTON WINFIELD THOMPSON, A.B., 1904 1910 Master of Science (Chemistry) Master of Arts (Political Science) IRBY COGHILL NICHOLS, B.S., A.M. (University of Mississippi) 1906, 1908 RALPH EARLE TIEJE, A.B., 1910 Master of Arts (English) Master of Science (Mathematics) EDWARD EVERETT VANCLEVE, A.B., 1912 HUA CHING OU, A.B. Master of Arts (Education) (Peiyang University) 1906, B.S., 1911 HELEN GERTRUDE WATSON, A.B. Master of Science (Agronomy) (Hedding College) 1911 MELVERN D OVERMIER, B.S., 1911 Master of Arts (Classics) Master of Science (Electrical Engi-JONATHAN WINBORNE WHITE, B.S. neering) (Agricultural & Mechanical College JAY BOARDMAN PARK, A.B., 1908 of North Carolina) 1903 Master of Science (Agronomy) Master of Science (Agronomy) RAY BOYD PONDER, B.S., 1911 JOHN HAMILTON WHITTEN, A.B., 1911 Master of Science (Mechanical Engi-Master of Arts (Botany) neering) ANNA WALLER WILLIAMS, A.B., 1907 Master of Arts (Household Science) JULIUS ADAM REINEMUND, A.B. CHARLES RICHARD WILSON, A.B. (Augustana College) 1911 Master of Arts (Sociology) (Illinois College) 1911 Master of Arts (Mathematics) MARY EMMA RENICH, A.B., 1911 Master of Arts (Mathematics) DAVID WRIGHT WILSON, B.S. CHARLES FREDERICK CURTIS RILEY, A.B. (Grinnell College) 1910 Master of Science (Chemistry) (University of Michigan) 1905 Master of Science (Zoology) SEWALL GREEN WRIGHT, B.S. RAYMOND JEFFERSON ROARK, B.S., 1911 (Lombard College) 1911 Master of Science (Civil Engineer-Master of Science (Zoology) TRYGVE D YENSEN, B.S., 1907 THOMAS WALTER SAMUELS, A.B., 1909 Master of Science (Electrical Engineering) Master of Arts (Economics) THEODORE FREDERICK ZUCKER WILHELMINA MARIE SCHAFFER. A.B. (Graduate Concordia College) 1907 (Lake Forest College) 1911 Master of Arts (German) Master of Science (Chemistry)

PROFESSIONAL DEGREES IN ENGINEERING

Conferred June 12, 1912

CHARLES BAKER BURDICK, B.S., 1895; Civil Engineer
ALEXANDER DAWES DUBOIS, B.S., 1899; Electrical Engineer
GEORGE WALLACE HUBBARD, B.S., 1899; Mechanical Engineer
EDWARD SPENCER KEENE, B.S., 1890; Mechanical Engineer
CHARLES TRESCOTT RIPLEY, B.S., 1909; Mechanical Engineer
GUY HENRY RUMP, B.S., 1904; Civil Engineer
ALWIN LOUIS SCHALLER, B.S., 1907; Mechanical Engineer
WILLIS APPLEFORD SLATER, B.S., M.S., 1906, 1910; Civil Engineer

DEGREE OF DOCTOR OF PHILOSOPHY

Conferred June 12, 1912

Samuel Herbert Anderson, A.B., A.M. (Park Coll.) 1902, 1903 (Physics)

Thesis: Ionization of Photo Electric Properties of Vapors of Alkali Metals

Margaret Lewis Bailey, A.B. (Cornell Univ.) 1903; A.M., 1910 (German)

Thesis: Milton and Jacob Böhme

STUART JEFFERY BATES, A.B., A.M. (McMaster Univ.) 1907, 1909 (Chemistry)

Thesis: The Iodine Coulometer and the Value of the Faraday

CHARLES FRANCIS BRISCOE, A.B. (Indiana Univ.) 1899; A.M., 1904 (Botany) Thesis: Tubercle Bacilli in Nature

DAVID WILLIAM CORNELIUS, A.B. (DePauw Univ.) 1906 (Physics)

Thesis: The Study of the Velocity of Electrons in the Photo-Electric Effect as a Function of the Wavelengths of the Light

WILLIAM WELLS DENTON, A.B. (Univ. Michigan) 1907; A.M., 1909 (Mathematics)

Thesis: Projective Differential Geometry of Developable Surfaces

James Everett Egan, A.B. (DePauw Univ.) 1908; A.M., 1910 (Chemistry)

Thesis: Observations on the Rare Earths. Yttrium Chloride and the

Atomic Weight of Yttrium

HUGH BYRON GORDON, A.B. (Miami Univ.) 1908; A.M., 1910 (Chemistry) Thesis: A Differential Dynamic Method for the Accurate Determination of Relative Vapor-Pressure Lowering

Walter Edward Joseph, B.S., (Purdue Univ.) 1907 (Animal Husbandry)

Thesis: A Study of Protein as a Factor in the Nutrition of Swine with Special Reference to the Distribution of the Various Forms of Nitrogen in the Animal Body

JACOB GARRETT KEMP, A.B., A.M., 1906, 1910 (Physics)

Thesis: Conditions of Sensibility of Photo-Electric Cells with Alkali Metals and Hydrogen

LEONIDAS ROSSER LITTLETON, A.B. (Southern Univ.) 1907; A.M. (Tulane Univ.) 1910 (Chemistry)

Thesis: Molecular Rearrangements in the Camphor Series. Derivatives of Isocamphoric Acid; Isoaminolauronic Acid and Its Decomposition Products

PAUL FREDERICK REIFF, Ph.D. (Basel) 1901 (History)

Thesis: Friedrich Gentz, an Opponent of the French Revolution and Napoleon

ELLISON LLOYD Ross, B.S. (Iowa State Coll.) 1904 (Chemistry) Thesis: Phosphorus Metabolism of Lambs

FRANKLIN WILLIAM SCOTT, A.B., A.M., 1901, 1903 (English)

Thesis: A Bibliography of the Newspapers and Periodicals of Illinois from 1814 to 1879

EARLE KENNETH STRACHAN, B.S., (Worcester Poly. Inst.) 1908; M.S., 1910 (Chemistry)

Thesis: The Equilibrum Between Arenious Acid and Iodine in Aqueous Solution

MAURICE COLE TANQUARY, A.B., A.M., 1907, 1908 (Entomology)

Thesis: Biological and Embryological Studies on Formicidae

ARTHUR JERROLD TIEJE, A.B., A.M. (Cornell Univ.) 1903, 1904 (English)

Thesis: The Expressed Critical Theory of European Prose Fiction Before
1740 Exclusive of Problems of Characterization, Setting, and Style
VINCENT HOLLIS TODD, A.B. (Harvard Univ.) 1907; A.M., 1910 (German)

Thesis: Baron Christopher von Graffenried's Newbern Adventures

ALBERT LEMUEL WHITING, B.S. (Massachusetts Agr'l Coll.) 1908; M.S. (Rhode Island State Coll.) 1910 (Agronomy)

Thesis: A Biochemical Study of Nitrogen in Certain Legumes

RICHARD HERMAN WILLIAMS, B.S. (Univ. Toronto) 1905; M.S., 1907 (Animal

Husbandry)

Thesis: A Study of Protein as a Factor in the Nutrition of Swine with

Special Reference to the Distribution of the Forms of Ash and

HONORARY DEGREES

Conferred June 12, 1912

THOMAS JONATHAN BURRILL, Ph.D., LL.D., Doctor of Laws SAMUEL WALKER SHATTUCK, C.E., LL.D., Doctor of Laws

Phosphorus in the Animal Body

FELLOWS AND SCHOLARS IN THE GRADUATE SCHOOL

1912-1913

FREDERICK HENRY ADLER, Fellow in German GLEN DAVID BAGLEY, Scholar in Electrical Engineering MARGARET LEWIS BAILEY, Traveling Fellow in German ALICE BIESTER. Scholar in Household Science (Nominee of the College of Science) ROBERT WESLEY BROWN, Scholar in Geology

DANIEL MILTON BRUMFIEL, Scholar in Entomology JOSEPHINE ELIZABETH BURNS, Fellow in Mathematics

FRED EMERSON CLARK, Scholar in Economics MARGARET VARA COBB. Fellow in Zoology

TAMES EDWARD ACKERT. Fellow in Zoology

JESSE LEROY CONEL, Scholar in Zoology (Nominee of James Millikin University) SIDNEY HAYES Cox. Scholar in English

EDWARD SAMUEL DOWELL, Scholar in Political Science

WILLARD CLARKE EELLS, Research Fellow in Theoretical and Applied Mechanics (Engineering Experiment Station)

DUANE TAYLOR ENGLIS, Scholar in Chemistry (Nominee of Eureka College) OLA MATTIE JOSEPHINE ESKELSON, Scholar in Mathematics (Nominee of Hedding College)

SILAS EDGAR FAUQUHER, Scholar in Botany EDNA LAURA FORREY, Fellow in German

STANLEY BLACK FRACKER, Scholar in Entomology

DENTON LORING GEYER, Fellow in Philosophy

JOHN WALTER GOOD, Fellow in English BYNE FRANCES GOODMAN, Scholar in History

SAPPHO CECELIA GRAHAM, Scholar in German

RUBY MABEL GRIMES, Scholar in Mathematics

MARY ANNA HAAN, Scholar in the Classics

HARRY FIELDING HADLEY, Research Fellow in Industrial Chemistry (Engineering Experiment Station)

HOMER HALL, Scholar in English

ALFRED CHESTER HANFORD, Scholar in Political Science

EDWARD OTTO HEUSE, Fellow in Chemistry

WILLIAM GRIFFITH HILL, Scholar in English (Nominee of Carthage College)

CHARLES ELMER HOLLEY, Scholar in Education

NELLIE NANCY HORNOR, Scholar in Physics

HAROLD ALLEN HOUSTON, Research Fellow in Industrial Railway Engineering (Engineering Experiment Station)

JOSEPH WHITNEY HOWARD, Scholar in Chemistry (Nominee of Shurtleff College) JOSEPH EARL HUBER, Scholar in Civil Engineering

PAUL WESLEY IVEY, Scholar in Economics

ELWIN VALENTINE KRATZ, Scholar in Civil Engineering (Nominee of College of Engineering)

EDWARD AUGUST THEODORE KIRCHER, Fellow in Mathematics

PHILIP AUGUSTUS LEHENBAUER, Fellow in Botany

GRETCHEN KATHERINE LUTZ, Scholar in German

RUDOLPH McDermet, Research Fellow in Electrical Engineering (Engineering Experiment Station)

JANET MALCOLM MACDONALD, Scholar in the Classics

WALLACE MACFARLANE, Fellow in Agronomy

HAROLD HOSSACK MACGREGOR, Fellow in Chemistry

GEORGE ALFRED MANEY, Research Fellow in Theoretical and Applied Mechanics (Engineering Experiment Station)

MAYNE SEGUINE MASON, Research Fellow in Electrical Engineering (Engineering Experiment Station)

LOUIS CLARK MATHEWSON, Fellow in Mathematics

I EARLL MILLER, Scholar in History

EDNA MOSHER, Scholar in Entomology

WILLIAM EARL MOSHER, Research Fellow in Mechanical Engineering (Engineering Experiment Station)

JONAS BERNARD NATHANSON, Scholar in Physics

LLOYD FRANCIS NICKELL, Fellow in Chemistry

FRANK GARM NORBURY, Scholar in Chemistry (Nominee of Illinois College)

RUDOLPH HANS NOTTELMANN, Scholar in History (Nominee of Monmouth College)

ALFRED WALTER ORCUTT, Fellow in Zoology

ARTHUR FREDERICK PEINE, Fellow in History

DAVID CHANDLER PRINCE, Scholar in Electrical Engineering

CHARLES FREDERICK CURTIS RILEY, Fellow in Zoology

CLARISSA RINAKER. Fellow in English

CORNELIA RUTH SEAWELL, Scholar in the Classics

ROBERT ST.CLAIR SEESE, Scholar in Electrical Engineering

SIBELT LUKE SIMMERING, Fellow in Mechanical Engineering

MARY MARGARET SPANGLER, Scholar in English

EDWIN ROLLIN SPENCER, Scholar in Education

JOHN WILLIAM STOKES, Research Fellow in Electrical Engineering (Engineering Experiment Station)

WILHELM ARTHUR SWENSON, Scholar in Mathematics (Nominee of Augustana College)

HOWARD RICE THOMAS, Research Fellow in Theoretical and Applied Mechanics (Engineering Experiment Station)

LILY BELLE VOEGELEIN, Scholar in Classics (Nominee of Northwestern College)

IRMA ELIZABETH VOIGT, Fellow in German

MARGARET WASHINGTON, Scholar in Entomology

PAUL SMITH WELCH, Fellow in Zoology

GUY YANDALL WILLIAMS, Fellow in Chemistry

WALTER JACOB WOHLENBERG, Research Fellow in Mechanical Engineering (Engineering Experiment Station)

PHILIP QUINCY WRIGHT, Scholar in Political Science (Nominee of Lombard College)

ADOLPH EDWARD ZUCKER, Scholar in German

THE FRANCIS JOHN PLYM FELLOWSHIP IN ARCHITECTURE

EDWARD ROY LUDWIG, 1911

UNIVERSITY HONORS

1911-1912

AWARDED BY THE FACULTY OF THE UNIVERSITY FOR SCHOLARSHIP

COLLEGE OF LITERATURE AND ARTS

PRELIMINARY HONORS

RAYMOND BEAN ALBRIGHT
OTHO WILLIAM ALLEN
AMY ADALINE BEACH
NORMAN FERDINAND BRUNKOW
OLEN ROBERT CLEMENTS
RUTH HALLIDAY

FRANKIE LEO HOLTON HOWARD HOSMER MARIAM KNOWLTON ELEANOR LUCILE MENCH CARL GARNER STEARNS MARK ALBERT VAN DOREN

THE DEGREE OF A.R. WITH HONORS

PAUL EVERETT BELTING, in Philosophy LOUISE KATHERYN GOEBEL, in German BYNE FRANCES GOODMAN, in History LOUIS HILL GOURLEY, in French FRANK BONNER LEONARD, in Economics JOSEPH ALLAN NEVINS, in English FLORENCE ARMINA OLSON ADOLF EDWARD ZUCKER. in German

COLLEGE OF SCIENCE

PRELIMINARY HONORS

HOWARD CLINTON ARNOLD OSCAR JACOB ELSESSER CARRIE BELLE HERDMAN LOUIS EDWARD MENSENKAMP FORREST HAMILTON MURRAY ANTON PRASIL HERBERT LOUIS VOIGT

FINAL HONORS

ALICE BIESTER
LOUIS EDWIN DALLENBACH
NELLIE NANCY HORNER
ARTHUR LYLE ISRAEL

FLOYD WILLIAM MOHLMAN NELLE MELISSA RIETZ MINNIE VAUTRIN

SPECIAL HONORS

OTTO SPRINGE, in Ceramic Engineering
FLOYD WILLIAM MOHLMAN, in Chemistry
JOSE ORIOL CARRERO, in Chemical Engineering
CHARLES KAY HEWES, in Chemical Engineering
CHARLES RASCHER, in Chemical Engineering
CHARLES RASCHER, in Chemical Engineering
NELLE MELISSA RIETZ, in Zoology

COLLEGE OF ENGINEERING

PRELIMINARY HONORS

ARTHUR HILDEMAN AAGARD
GLENN WALLACE BASS
ARTHUR WILLIAM BAUMGARTEN
JOSEPH MANDEL BRANDSTETTER
RALPH BURKE
JAMES ERROL CHURCHILL
JOHN CUTLER
ARMIN ELMENDORF
ELIJAH ROBERT HATOWSKI
LINN HELANDER
WAYNE ISAAC KIRBY
CLOVIS WARD LINCOLN
ERWIN MOSES LURIE
ELMER MCCORMICK

GEORGE MEYER, JR.
MYER OSCAR NATHAN
RAYMOND WILLIAM OWENS
JULIUS CLARK PALMER
JOHN WALLACE PARK
HENRY EUGENE PENGILLY
GEORGE EDWARD QUICK
FRANK ERWIN RICHART
DAVID MORRIS RIFF
JULES HENRY ROBERT
HAROLD GREENE SPRAGUE
HENRY RAYMOND TEAR
HAROLD EARLE THOMPSON
CLIFFORD HARPER WESTCOTT

FINAL HONORS

GLENN DAVID BAGLEY
ROY RUDY CARTER
JOHN ROBERT COLVILLE
EDWIN LEWIS CONNELL
JOHN WALKER DAVIS
LEWIS NEBINGER FISHER
PAUL HARNED GILLAN
JAMES HERBERT HEWITT
JOSEPH EARL HUBER
ELWIN VALENTINE KRATZ

LIONEL LYMAN LIVINGSTONE
PAUL KEITER MILES
GEORGE WEST PHILLEO
DAVID CHANDLER PRINCE
CHESTER SCHENCK
JOHN WILLIAM STOKES
ARCHIBALD BEEBE VAN DEUSEN
ROY L VANIMAN
WALTER CHARLES VOSS
HARVEY FRANKLIN WAGNER

SPECIAL HONORS

GEORGE WEST PHILLEO, in Mechanical Engineering DAVID CHANDLER PRINCE, in Electrical Engineering JOHN WILLIAM STOKES, in Electrical Engineering HARVEY FRANKLIN WAGNER, in Civil Engineering

COLLEGE OF AGRICULTURE

PRELIMINARY HONORS

LOUIS ASA ABBOTT
EARL KIRKWOOD AUGUSTUS
GEORGE STANLEY BEAUMONT
FREDERICK JACKSON BLACKBURN
RUSSELL CARD FRAZEE
ROBERT PERCY GAGE
CECIL A HUCHES

WILFORD ESPIN JOHNS
CATHERINE PLANCK
GLENN WILSON SCHROEDER
EDMUND CLAY SECOR
WARREN MAXWELL SHELDON
TOM CANDY STONE
WALLAGE MOOREHEAD WELTY

FINAL HONORS

HAROLD CLAYTON M CASE GEORGIA ELIZABETH FLEMING ROBERT R HUDELSON Donald Jackson Kays George Brophy Kendall Dana Hugh Stevenson SCHOOL OF MUSIC

SPECIAL HONORS

ROSA-LEE GAUT

COLLEGE OF LAW

PRELIMINARY HONORS

WILLIAM EVERITT BRITTON IRA ALLEN DIXON

STANLEY LANDON POGUE NATHAN COOK SEIDENBERG

LIBRARY SCHOOL

FINAL HONORS

EMMA FELSENTHAL

MILITARY HONORS

COMMISSIONS AS BREVET CAPTAINS, ILLINOIS NATIONAL GUARD ISSUED BY THE GOVERNOR IN 1912

PAUL KIRCHER
HOMER BOYS HULL
LESTER HERBERT GRAVES
HERBERT THAL LEO
LEIGH MERYL MATTHEWS
ARTHUR WILLIAM ABBOTT
VICTOR ROBERT SLADEK
ARTHUR LYLE ISRAEL
ROSS DARWIN INGALLS
KENNETH BEBB
JOHN RICHARD WELLS
ARCHIBALD BEBBE VAN DEUSEN

WALTER CHARLES BERKEMEYER EDMUND GOTTLIEB HOEPPNER LEO VINCENT SCHUNDNER SIDNEY GRISWOLD MARTIN LEO MAHLON APGAR WALTER CHARLES VOSS WILLIAM GLADSTONE CLARK HERMAN CHARLES KRANNERT FRED EARL SWEITZER WILLIAM VERITY INGRAM WILLIAM RAPHAEL MCINTIRE GLEN DAVID BAGLEY

Louis Edwin Dallenbach

REPORTED TO THE ADJUTANT GENERAL, UNITED STATES ARMY AS DISTINGUISHED CADETS

PAUL KIRCHER HOMER BOYS HULL LESTER HERBERT GRAVES HERBERT THAL LEO

LEIGH MERYL MATTHEWS
ARTHUR WILLIAM ABBOTT
VICTOR ROBERT SLADER
ROSS DARWIN INGALLS
ARCHIBALD BEEBE VAN DEUSEN

ROSTER OF OFFICERS AND NON-COMMISSIONED OFFICERS OF THE UNIVERSITY CORPS OF CADETS, 1912-13

ColonelLieutenant Colonel	
Captain and Regimental Adjutant	
Captain and Regimental Quartermaster	Cleaver Thayer
Captain and Regimental Commissary	F. M. Atkinson
Regimental Sergeant Major	J. N. Greene
Regimental Quartermaster Sergeant	E. A. Williford
Regimental Commissary Sergeant	**********
Regimental Color Sergeant	F. S. Wells
Regimental Color Sergeant	R. R. Zipprodt

FIRST BATTALION

MajorH.	C. 7	Chompson
First Lieutenant and Adjutant		
Second Lieutenant and QuartermasterF.		
Sergeant MajorL.		

2nd Lieut., 1st Sergt.,	Company "A" R. U. Nichols H. G. Wood H. L. Bauer A. Burns J. C. Hostetler G. H. Dubin J. B. Jefferson R. E. Morris E. H. Stewart A. M. Baker H. C. Albin C. W. Crawford W. M. Fowler M. B. Kugler P. Meyers B. Sterenberg C. P. Winters	2nd Lieut., 1st Sergt.,	C. H. McCauley E. R. Dillavou J. N. Noble G. E. Sanders A. D. Hawley R. M. Wightman
2nu Lieut., 1st Sergt.,	Company "C" C. A. Wold H. S. Mueller C. H. Thompson 1. R. Cline C. H. Berwald E. J. Bartz E. A. James G. D. Stopp H. N. Mottern J. M. Jansen O. C. Detering G. L. Kyle Jos. H. Miller T. D. Randall D. D. Stonier A. Zollinger	1st Lieut., 2nd Lieut.,	A. M. Barreau A. J. Benner F. H. Kelley T. Plack P. G. Schiesswohl

SECOND BATTALION

Second Lie	utenant and Quartermaster		E. M. Lurie
Sergeant	Major	•••••	H. K. Sheldon
	Company "A"		Company "B"
Captain,	K. C. Kirchhoff	Captain,	L. A. Boettiger
1st Lieut.,	P. C. Rich	1st Lieut.,	H. P. Vandercook
2nd Lieut.,	N. F. Brunkow	2nd Lieut.,	A. W. Baumgarten
1st Sergt.,	L. H. Dunham	1st Sergt.,	E. C. Elles
Sergeants,	K. Carpenter	Sergeants,	E. R. Brunskill
	W. B. Erwin		R. L. Rush
	O. A. Krueger		G. H. Butler
	L. A. Parker		L. D. Knapp
	A. R. Siebens		C. E. Trowbridge
	H. E. Barden		A. P. Peyraud

Corporals,	B. Austin B. E. Dirks I. Larson G. B. Leno	Corporals,	B. A. Barker P. R. Greenman P. W. Mourning H. A. Tanneson
	B. H. Stubblefield		Company "D"
Captain,	Company "C" F. X. Loeffler	Captain,	M. G. Severinghaus
1st Lieut.,	N. L. Partridge	1st Lieut.,	H. E. Codlin
2nd Lieut.			W. J. Bublitz
	R. B. Hinman	1st Sergt.,	
Sergeants,	R. L. Barlow	Sergeants,	H. Cutting
	C. C. Bradley		W. O. Rathfon
	C. H. Grewe		H. L. Cummings
	J. L. Kobylanski		G. D. Griswold A. E. Kidd
	R. W. Parker A. Tarranciano		W. T. Reace
Corporale	E. Barth	Corporals,	S. Duner
Corporals,	H. Dubin	Corporato,	A. B. Hammitt
	G. Hammer		S. C. Linbarger
	A. C. G. Leverenz		R. E. Thomas
	M. Nelson		
	J. F. Romine		
	H. R. Tear		
	THIRD E	BATTALION	1
Major			J. F. Brown
First Lieute	enant and Adjutant	• • • • • • • • • • • • • • • • • • • •	F. A. Kopf
Second Lie	utenant and Quartermaster.	••••••	C. Velzy
Sergeant 1	//ajor	····	
	Company "A"		Company "B"
Captain,	I. R. Ruby	Captain,	M. L. Nebel
	E. K. Augustus	1st Lieut.,	
2nd Lieut.,	R. A. Kane	2nd Lieut.,	F. H. Bergland R. S. Mason
1st Sergt.,	W. K. Norris J. E. Demuth	Sergeants,	
Sergeants,	M. E. Slater	Sergeants,	W. E. Whisler
	W. W. Anderson		R. N. Coolidge
	C. C. Gamble		G. E. Gable
	G. H. Lindsey		E. R. P. Rall
	W. K. Parker		R. E. Helfrick
	J. C. C. Whitelaw	Cornente	
		Corporals,	G. W. Blake
Corporals,	A. B. Bingham	Corporais,	I. A. Elliott
Corporals,	A. B. Bingham C. M. Linsley	Corporais,	I. A. Elliott R. L. Lundin
Corporals,	A. B. Bingham C. M. Linsley O. Rue	Corporats,	I. A. Elliott
Corporals,	A. B. Bingham C. M. Linsley O. Rue L. D. Tilton	Corporats,	I. A. Elliott R. L. Lundin E. Nolte
	A. B. Bingham C. M. Linsley O. Rue L. D. Tilton Company "C"		I. A. Elliott R. L. Lundin E. Nolte Company "D"
Captain,	A. B. Bingham C. M. Linsley O. Rue L. D. Tilton Company "C" W. K. Palmer	Captain,	I. A. Elliott R. L. Lundin E. Nolte Company "D" E. A. Glenz
Captain, 1st Lieut.,	A. B. Bingham C. M. Linsley O. Rue L. D. Tilton Company "C" W. K. Palmer E. L. Hasker	Captain, 1st Lieut.,	I. A. Elliott R. L. Lundin E. Nolte Company "D" E. A. Glenz H. O. Danz
Captain, 1st Lieut., 2nd Lieut.,	A. B. Bingham C. M. Linsley O. Rue L. D. Tilton Company "C" W. K. Palmer E. L. Hasker D. M. Riff	Captain, 1st Lieut., 2nd Lieut.,	I. A. Elliott R. L. Lundin E. Nolte Company "D" E. A. Glenz H. O. Danz H. S. Tressel
Captain, 1st Lieut., 2nd Lieut.,	A. B. Bingham C. M. Linsley O. Rue L. D. Tilton Company "C" W. K. Palmer E. L. Hasker D. M. Riff C. A. Nebel	Captain, 1st Lieut.,	I. A. Elliott R. L. Lundin E. Nolte Company "D" E. A. Glenz H. O. Danz H. S. Tressel W. A. Piper G. W. Watts
Captain, 1st Lieut., 2nd Lieut., 1st Sergt.,	A. B. Bingham C. M. Linsley O. Rue L. D. Tilton Company "C" W. K. Palmer E. L. Hasker D. M. Riff C. A. Nebel J. L. Fish F. Taggart	Captain, 1st Lieut., 2nd Lieut., 1st Sergt.,	I. A. Elliott R. L. Lundin E. Nolte Company "D" E. A. Glenz H. O. Danz H. S. Tressel W. A. Piper G. W. Watts H. F. Cogdall
Captain, 1st Lieut., 2nd Lieut., 1st Sergt.,	A. B. Bingham C. M. Linsley O. Rue L. D. Tilton Company "C" W. K. Palmer E. L. Hasker D. M. Riff C. A. Nebel J. L. Fish F. Taggart C. B. Carlson	Captain, 1st Lieut., 2nd Lieut., 1st Sergt.,	I. A. Elliott R. L. Lundin E. Nolte Company "D" E. A. Glenz H. O. Danz H. S. Tressel W. A. Piper G. W. Watts H. F. Cogdall R. M. Husband
Captain, 1st Lieut., 2nd Lieut., 1st Sergt.,	A. B. Bingham C. M. Linsley O. Rue L. D. Tilton Company "C" W. K. Palmer E. L. Hasker D. M. Riff C. A. Nebel J. L. Fish F. Taggart C. B. Carlson G. H. Matteson	Captain, 1st Lieut., 2nd Lieut., 1st Sergt.,	I. A. Elliott R. L. Lundin E. Nolte Company "D" E. A. Glenz H. O. Danz H. S. Tressel W. A. Piper G. W. Watts H. F. Cogdall R. M. Husband E. S. McPherson
Captain, 1st Lieut., 2nd Lieut., 1st Sergt.,	A. B. Bingham C. M. Linsley O. Rue L. D. Tilton Company "C" W. K. Palmer E. L. Hasker D. M. Riff C. A. Nebel J. L. Fish F. Taggart C. B. Carlson G. H. Matteson D. B. Rich	Captain, 1st Lieut., 2nd Lieut., 1st Sergt.,	I. A. Elliott R. L. Lundin E. Nolte Company "D" E. A. Glenz H. O. Danz H. S. Tressel W. A. Piper G. W. Watts H. F. Cogdall R. M. Husband E. S. McPherson C. L. Ritts
Captain, 1st Lieut., 2nd Lieut., 1st Sergt.,	A. B. Bingham C. M. Linsley O. Rue L. D. Tilton Company "C" W. K. Palmer E. L. Hasker D. M. Riff C. A. Nebel J. L. Fish F. Taggart C. B. Carlson G. H. Matteson	Captain, 1st Lieut., 2nd Lieut., 1st Sergt.,	I. A. Elliott R. L. Lundin E. Nolte Company "D" E. A. Glenz H. O. Danz H. S. Tressel W. A. Piper G. W. Watts H. F. Cogdall R. M. Husband E. S. McPherson

Corporals, E. A. Nordstedt

Corporals, W. H. Chambers
P. H. Everhart
W. A. Honer
J. L. McKeown
T. D. Shonts
B. R. Uphaus

FOURTH BATTALION

First Lieute Second Lie	enant and Adjutantutenant and Quartermaster		.H. E. Howes .H. Devine
1st Sergt.,	A. W. Gross C. J. Anderson M. Holmburger V. L. Morris D. C. Scheele	2nd Lieut., 1st Sergt.,	Company "B" J. F. Kohout L. W. Miner W. J. Blum F. J. Strock G. M. Girhard V. G. Altpeter V. F. Dobbins C. F. Hood E. L. Seyster
Corporals,	C. P. Barkman L. Clemons G. C. Faurote C. W. Hudelson L. D. Marquis B. Oswalt J. M. Silkman H. H. Walters	Corporals,	A. H. Grunewald E. Cochran J. E. Fetherston C. A. Kellogg F. W. Mattoon R. Parsons
Captain, 1st Lieut., 2nd Lieut., 1st Sergt., Sergeants,	Company "C" C. A. Schoessel E. A. Doisey R. L. Smith F. H. Thorne G. L. Ayers B. H. Decker C. A. Metz C. H. S. Lekberg W. E. Wheeler W. C. Armstrong	1st Sergt.,	Company "D" M. P. Taylor W. H. Scales W. E. Bow H. C. Webster R. L. Herman S. S. Davis A. H. Huisken John H. Miller W. S. Shively V. D. Cylkowski
Corporals,	H. Colson A. K. Fogg S. Korshak G. H. Pike J. D. Snook R. T. Welsh	Corporals,	
2nd Lieut.,	Signal Company C. W. Gates L. W. Faulkner E. R. Hatowski W. A. Wagner	2nd Lieut.,	Battery C. B. Sayre E. R. Foster J. E. Churchill H. R. Wiesenmeyer

| Sergeants, W. H. Simon | Sergeants, H. Bigler | L. C. Bow | F. A. Forty | H. W. Deakman | A. M. Heinzelman | R. C. Swope | C. E. Sims | I. Faulkner | C. T. Pennebaker | M. E. Hoit | C. T. Pennebaker |

C. T. Pennebake Corporals, H. E. Austin A. D. Donnell W. Ramsey A. L. Wagner J. A. Andrews T. A. Ross

H. B. Rogers

ANNUAL COMPETITIVE DRILLS-1912

INFANTRY

University Bronze Medals

(Sophomore Competitive Drill)

COMPANY "C" 1ST BATTALION, UNIVERSITY REGIMENT

Captain J. R. Wells 1st Lieut. P. E. Buck 2nd Lieut. C. A. Wold 1st Sergt. J. W. Herndon Sergeant B. H. Blake Sergeant J. Cutler Sergeant V. O. Seed Sergeant A. F. Barron Sergeant O. F. Foster Sergeant S. T. Claffin Corporal E. A. Brown Corporal F. R. Fleig Corporal A. N. Laird Corporal B. J. Rappaport Corporal J. L. Simonich Corporal G. H. Wittenberg Lance Corporal J. M. Nickelsen Lance Corporal G. G. Sears Private B. Abney Private G. F. Bissell Private J. M. Bowen Private C. H. Brant Private T. C. Burwash Private M. B. Carr Private R. F. Clark Private G. D. Crittenberger Private H. O. Danz

Private F. L. Dunavan Private R. N. Engle Private P. H. Goldberg P ivate S. B. Hadden Private H. H. Harris Private W. S. Hatch Private A. S. Henderson Private W. H. Jacobson Private W. S. Kirkpatrick Private H. O. McCracken Private E. E. Mitchell Private M. J. Morrisey Private W. P. Munsell Private M. Murr Private C. H. Peret Private J. H. Phillips Private F. E. Poston Private R. C. Quirk Private R. S. Reed Private R. E. Risser Private A. L. Schuyler Private C. H. Tapping Private H. E. Thompson Private M. Y. T. Tong Private H. L. Voigt Private G. I. Willson Private H. T. Wood

*University Bronze Medals and Pins

(Freshman Competitive Drill)

COMPANY "B" 3RD BATTALION, UNIVERSITY REGIMENT

Captain W. C. Voss 1st Lieut. M. L. Nebel 2nd Lieut. E. R. Coolidge 1st Sergt. G. H. Bargh Sergeant P. C. Rich Sergeant R. W. Owens Sergeant H. G. Wood Sergeant G. V. Carrier Sergeant D. D. Tibbetts Sergeant C. Velzy Corporal R. L. Smart Corporal G. E. Quick Corporal J. H. Robert Corporal T. J. Rector Corporal J. E. McDonald Corporal H. F. Skadden Lance Corporal P. G. Rapp Lance Corporal T. Plack Private R. Ashwill Private R. E. Augustus Private R. P. Baker Private R. L. Barlow Private R. O. Barnes Private E. M. Barnum Private E. M. Barlum Private W. D. Boyer Private E. T. Buckley Private W. J. Callahan Private A. W. Carlson Private C. B. Carlson Private G. H. Dubin Private F. A. DuHadway Private E. C. Elles Private R. Garner Private H. Geitner

Private A. W. Gross Private J. H. Gumz Private H. W. Heafer Private R. M. Husband Private L. A. Husted Private J. R. Jones Private W. J. Keese Private S. Korshak Private C. G. Kramer Private C. L. Langan Private G. H. Lindsey Private R. C. Maley Private S. H. Minchin Private V. L. Morris Private P. L. Myers Private C. A. Nebel Private L. A. Parker Private A. W. Peterson Private C. P. Pfrangle Private F. B. Richardson Private F. P. Rohrer Private E. Sandstedt Private W. S. Shively Private A. D. Sizer Private M. Stein Private H. Steinmeyer Private R. L. Strang Private A. R. Summers Private L. F. Swartz Private C. E. Trowbridge Private R. H. Van Buskirk Private J. B. Wainwright Private B. L. Wheeler Private R. M. Wightman Private C. P. Winters Private P. R. Zipprodt

ARTILLERY

University Bronze Medals

Captain E. A. Rich 1st Lieut. C. B. Sayre 2nd Lieut. J. J. Kurt Sergeant E. R. Foster Private C. A. Atwood

Private L. M. Gilmore

Private R. M. Graves

Private F. E. Britton Private O. A. Budina Private A. Bergman Private O. R. Clements Private H. G. Menke

Private O. A. Shoger

^{*}Sophomores, bronze medals; Freshmen, bronze pins

SIGNAL COMPANY

University Bronze Medals

Captain G. D. Bagley 1st Lieut. C. W. Gates 2nd Lieut. L. A. Dole Corporal F. J. Flexer Corporal J. H. Measer Private H. E. Austin Private H. W. Deakman Private D. S. Frayer
Private C. L. Luckett
Private E. R. Hatowski
Private A. C. Pratt
Private V. S. Rice
Private E. M. Shaw
Private R. C. Swope
Private G. A. Ziska

RIFLE COMPETITION

University Bronze Medals

COMPANY "B" 1ST BATTALION TEAM

Sergeant A. W. Baumgarten Corporal C. S. Craigmile Private L. A. Abbott Private G. Christy Private L. K. Gilpatrick Private D. O. Mount

INTERCOLLEGIATE DEBATERS

1911-1912

IN THE CENTRAL DEBATING CIRCUIT

Against Wisconsin
CLYDE MONROE HOBART
WILLIAM JASPER PRINCE
FRANK BONNER LEONARD, JR.

Against Iowa
Raymond George Real
Lester Eugene Frailey
Arthur Vernon Essington

IN THE STATE UNIVERSITY DEBATING LEAGUE

Against Ohio State
CHARLES WILLIAM BURTON
LESTER EUGENE FRAILEY
FRANK BONNER LEONARD, JR.

Against Indiana
LYMAN MARION FORT
CHARLES MARSHALL KENNAN
JAMES VAIL STEVENSON

REPRESENTATIVE IN THE STATE PEACE CONTEST

ARTHUR EVERETT HOLCH

SUMMARY OF DEGREES

Honorary Degrees		2
LL.D.		2
Degrees in the Graduate School		
A.M		
M.S		
C.E		
E.E1		
M.E		
Ph.D		
Total	113	
Baccalaureate Degrees		
A.B., College of Literature and Arts164		
A.B., College of Science		
B.S., College of Science		
B.S., College of Engineering		
B.S., College of Agriculture		
B.Mus., School of Music		
Total	493	
Degrees in Law		
LL.B		
J.D. 1		
J.D		
Total	26	
Degrees in Library Science		
B.L.S	12	
Totals, Colleges and Schools in Urbana		644
Degrees in Medicine		
M.D	145	
Degrees in Dentistry		
D.D.S	36	
Degrees in Pharmacy		
Ph.G		
Ph.C		
Total	37	
	3/	010
TOTAL, DEPARTMENTS IN CHICAGO		218
TOTAL, ALL DEPARTMENTS		864

SUMMARY OF OFFICERS

Officers of Instruction	Men	Women	Total
Professors	71	2	73
Associate Professors	10		10
Assistant Professors	61	2	63
Associates	37	2	39
Instructors	101	16	117
Assistants	84	18	102
Special Lecturers	I	I	2
Graduate Assistants	23	4	27
Student Assistants	10	2	12
Student Assistants in Military	5		5
Total	403	47	450
Officers of Administration		3	39
Total Instructional and Administrative	439	50	489
Deduct duplicates	22	2	24
Net total	417	48	465

SUMMARY OF STUDENTS

College and Course	Men	Seniors Wom.	T'l.		Juniors Wom.	T'l.		phomo Wom,	
LITERATURE AND A							1.2070		
General L. and A		68	92	37	66	103	31	75	106
Business			33	40	2	42	45		45
Household Science		5	5		32	32		22	22
Totals	57	73	130	77	100	177	76	97	173
SCIENCE									
General Science		6	44	22	9	31	15	7	22
Ceramics		•	5 4	9		9 3	9 8	••••	9
Ceramic Engineering Chemistry			8	6	••••	6	5		5
Chemical Engineering	13		13	8		8	19		19
Medical Preparatory			3	7		7	12		12
Household Science		11	11		9	9		6	6
Totals		17	88	55	18	73	68	13	81
Totals Arts and Science	128	90	218	132	118	250	144	110	254
ENGINEERING									
Architecture	22		22	43		43	38	****	38 27 56
Architectural Engin'r' Civil Engineering			18 32	17 47		17 47	2 7 56		56
Electrical Engineering			22	80		80	53	••••	53
Mechanical Engineerin	g 18	•••	18	54		54	49		53 49 8
Mining Engineering	3		3	5		5	8		8
Mun. & San. Engin	3 2	••••	3 2	9 2		9	4 2		-
Railway Civil Engin Railway Electr. Engin Railway Mech. Engin.	i. 1		í				í		î
Railway Mech. Engin.	2		2	2		2	1	••••	1
Totals	123		123	259		259	240		240
AGRICULTURE									
General Agriculture		1	92	115	1	116	137		132
Household Science			9	****	20	20	••••	20	2
Totals		10	101	115	21	136	137	20	15
MUSICTotals, Undergraduates		3	5	****	7	7	1	6	2
TOTALS, UNDERGRADUATES	AT C	KBANA			hird Y			ond Y	000
LAW				29		29	27		2
LIBRARY SCHOOL								16	1
TOTALS, UNDERGRADUATE									
GRADUATE SCHOOL									
SUMMER SESSION (/								
Total Registration Deduct students ret									
Net total, Summer									
Totals at Urbana									
PHARMACY (Chicago)									
Ph.G. Course							54	****	5
Ph.C. Course							3		
Total							57		5
Total in University to Deduct Duplicates									
NET TOTAL									

1912-1913

Men	Freshmen Wom.	T'l.	Men	Specials Wom.	T'l.	Men	Totals Women	Total
199	121	240	4	13	17	215	343	558
127	2	129	****	1	1	245	5	250
246	55	55	4	1 15	19	460	115 463	923
246	178	424	4	15	19	400	403	923
48	7	55	2	****	2	125	29	154
23 15	••••	23 15	••••	••••	••••	46 30		46 30
22	1	23	••••		••••	41	1	42
28	••••	28	1	••••	1	69		69
36	18	36 18	****	1	 1	58	45	58 45
172	26	198	3	1	4	369	75	444
418	204	622	7	16	23	829	538	1367
418	204	022	,	10	23	829	330	1307
96	1	97	3	••••	3	202	1	203
67 78	****	67 78	3	••••	3	129 216	••••	129 216
121		121	3		3	279	••••	279
138		138	1		1	260		260
8	****	8		****		24	••••	24
7 2 2	****	7 2	1		1	24 8	••••	24 8
		2	••••	****		5		5
1		1	1		1	7		7
520	1	521	12	••••	12	1154	1	1155
271	1	272	149	10	159	763	13	776
	42	42		5	5	****	96	96
271	43	314	149	15	164	763	109	872
1	35	36	****	31	31	4	82	86
	First Year		***************************************			2750	730	3480
61		61	8	****	8	125		125
2	17	19				2	33	35
						2877	763	3640
•••••			• • • • • • • • • • • • • • • • • • • •			269	62	331
	****************					430	210	640
					******	222	51	273
		•••••••		•••••		208	159	367
	***************************************			•••••		3354	984	4338
63 5	3	66 5	47	****	47 1	164 9	3	167
68	3	71	48	****	48		3	9 176
00	3	/ 1	48	*	48	173		
		•••••		•••••		3527 4	98 7 4	4514 8

GEOGRAPHICAL DISTRIBUTION

STUDENTS AT URBANA 1912-1913

By Countries, States, Counties in Illinois, and Senatorial Districts in Illinois

Summary			
	Men	Women	Total
Foreign Countries	120	1	121
Insular Possessions of U. S	. 8	1	9
States other than Illinois	674	158	832
Total outside Illinois	802	160	962
Illinois	2548	820	3368
Total	3350	980	4330
Foreign Countries	••••	,00	
Argentina	3 1		3 1
Bohemia	1		i
Bulgaria	2		2
Canada	9	1	10
China	44		44
Cuba	2		2
Denmark	ī		1
Egypt	1		1
Germany	4	****	4
Holland	1	••	1
India	9	•	9
Italy	1	••••	1
Japan	15	****	15
Mexico	10	****	10
Norway	2	••••	2
Orange Free State	1 2	****	1 2
Peru	6	••••	6
South Africa	2		2
Sweden	ĩ	••••	ĩ
Switzerland	î		ī
Turkey	ī	••••	1
Total, Foreign Countries	120	1	121
Insular Possessions			
Hawaii	2	1	3
Philippine Islands	4		4
Porto Rico	2	••••	2
Total, Insular Possessions	8	1	9
STATES			
Alabama	4	1	5
Arizona	4	••••	4
Arkansas	9	2	11
California	16	4	20
Colorado	12	5	17
Connecticut	1	1	2
Delaware	4	••••	4
Florida	1	2	3

	Men	Women	Total
Georgia	2		2 5
Idaho	. 5		5
Indiana	145	36	181
Iowa	66 25	19 8	85 33
Kansas	10	0	10
Louisiana	2	1	3
Maine	1	-	ī
Maryland	2	****	2
Massachusetts	20	2	22
Michigan	38	11	49
Minnesota	22	5	27
Mississippi	4 81	1 9	5 90
Missouri	2	,	2
Nebraska	11	3	14
Nevada	1		1
New Hampshire	ī	1	2
New Jersey	7	1	8
New Mexico	1	2	3
New York	33	8	41
North Carolina			10
North Dakota	9 34	1 11	45
OhioOklahoma	13	4	17
Oregon	2	7	2
Pennsylvania	11	3	14
Rhode Island	1	****	1
South Carolina	1		1
South Dakota	6	1	7
Tennessee	. 5	1	6
Texas	10	3	13
Utah	3 2	1	4 2
Vermont	1	2	3
Washington	10	3	13
West Virginia	4	ĭ	5
Wisconsin	30	5	35
Wyoming	2	****	2
			
Total, States	674	158	832
Counties in Illinois			
Adams	32	12	44
Alexander	7	4	11
Bond	5	4	9
Boone	11	6	17
Brown	6	4	10
Bureau	33	6	39
Calhoun			
Carroll	9	2 3	11
Cass	8 341	264	11
Christian	22	3	605 25
Clark	8	4	12
Clay	6	2	8
Clinton	3	2 3	6
Coles	20	7	27
Cook	557	111	668
Crawford	20	1	21
Cumberland	6	2 5	.8
DeKalb DeWitt	27	5 7	32
DeWitt	15	/	22

	Men	Women	Total
Douglas	14	. 7	21
DuPage	24	3	27
Edgar	25	7	32
Edwards	3	2	5
Effingham	7	2 3 3	10
Fayette	14	3	17
Ford	14	5	19
Franklin	5	ĭ	6
Fulton	40	â	48
Gallatin	4	Ū	4
Greene	23	3	26
Grundy	19	4	23
Hamilton		•	20
Hancock	20	4	24
	20	7	44
Hardin	2	••••	2
Henderson	26	3	29
Henry	30	11	41
Iroquois			
Jackson	14	4	18
Jasper	6	4 2 5	. 8
Jefferson	13	5	18
Jersey	4	****	4
Jo Daviess	7	3 2	10
Johnson	6		8
Kane	86	14	100
Kankakee	21	5 2 8 2 13	26
Kendall	7	2	9
Knox	23	8	31
Lake	18	2	20
LaSalle	66	13	79
Lawrence	9	2	11
Lee	18	6	24
Livingston	19	8	27
Logan	10	6	16
McDonough	21	10	31
McHenry	17	5	22
McLean	39	14	53
Macon	32	6	38
Macoupin	19		22
Madison	29	3 6	35
	21	6	27
Marshall	8	1	27 9 12 7
Mason	8	1	12
	7	7	12
	4		6
Mercer	6	4	
		2 3 1	9 5
Monroe	4	6	
Montgomery	28		34
Morgan	12	2	14
Moultrie	20	4	24
Ogle	15	2	17
Peoria	57	5	62
Perry	3	****	3
Piatt	17	8	25
Pike	14	3	17
Pope	1	****	3
Pulaski	2	1	3
Putnam	11	1	12
Randolph	3	5	8
Richland	7	5 2	9
Rock Island	29	11	40
St. Clair	33	5	38
Saline	6	3	9
Sangamon	50	13	63

		Men	Women	Total
Schuyler	***************************************	9	2	11
Scott		7	2	9
Shelby		11	3	14
Stark		.5	3	.8
Stephens	on	15	4	19 35
Tazewell		25 10	10 1	11
	n	52	20	72
		6	20	8
		14	2	16
Washing	ton	4	2	6
		14	3	17
		8	3	11
	e	34	.7	41
		24	11 4	35
	ongo	13 34	5	17 39
	d	7	8	15
** 000101	u			
Tota	1, Counties	2548	820	3368
	200.			
	Senatorial Districts in Ili			
District	Counties	Men	Women	Total
	Cook, 1. 2. 3, 4, 5, 6, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31			
	17, 19, 21, 23, 25, 27, 29, 31	557	111	668
8 10	Boone, McHenry, Lake	46 49	13	59
12	Jo Daviers, Stephenson, Carroll	31	7 9	56 40
14	Kane, Kendall	93	16	109
16	Putnam, Marshall, Woodford, Livingston	45	18	63
18	Peoria	57	Š	62
20	Grundy, Kankakee, Iroquois	70	20	90
22	Vermilion, Edgar	77	27	104
24	Champaign, Piatt, Moultrie	378	276	654
26	McLean, Ford	53	19	72
28 30	Logan, DeWitt, Macon	57	19	76-
30	Tazewell	60	25	85
32	Hancock, McDonough, Warren	55	16	71
33	Henderson, Mercer, Rock Island	37	14	51
34	Douglas, Coles. Clark	42	18	60
35	Douglas, Coles, Clark	79	18	97
36	Adams. Pike, Scott, Calhoun	53	17	70
37	Henry, Bureau, Stark	64	12	76
38 39	Greene, Jersey, Macoupin, Montgomery	74	12	86
39 40	LaSalle	66 53	13 11	79
41	Christian, Shelby, Cumberland, Fayette DuPage, Will	33 48	11	64 62
42	Clinton, Clay, Marion, Effingham	37	14	51
43	Knox. Fulton	63	16	79
44	Monroe, Randolph, Perry, Washington, Jackson		-	• •
	Jackson	28	12	40
45	Morgan, Sangamon	62	15	77
46	Jefferson, Wayne, Richland, Jasper	40	12	52
47 48	Wadison, Bond.	34	10	44
70	Hardin, Gallatin, White, Edwards, Wa- bash, Lawrence, Crawford	50	10	60
49	St. Clair	33	5	38
50	Alexander, Pulaski, Union, Williamson,	00	3	00
• •	Franklin	37	11	48
51	St. Clair Alexander, Pulaski, Union, Williamson, Franklin Johnson, Massac, Pope, Saline, Hamilton	20	5	25
_				
Tota	ls	2548	820	3368

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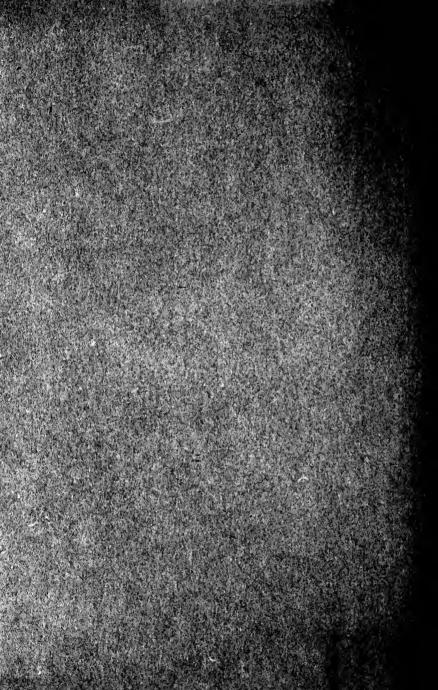
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